# DEPARTMENT OF THE NAVY FY 1998/1999 BUDGET ESTIMATES



# JUSTIFICATION OF ESTIMATES

# OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 1

FEBRUARY 1997

EXHIBIT P-1

# DEPARTMENT OF THE NAVY FY 1998/FY 1999 PROCUREMENT PROGRAMS

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 02/04/97

		DOLLARS						ILLIONS OF I	
LINE NO. ITEM NOMENOLATURE	IDENT	FY 1998 FY 19		FY 19		FY 19		FY 19	
LINE NO ITEM NOMENCLATURE	CODE	UNIT COST QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
BUDGET ACTIVITY 01: Ships Support Equipment									
Ship Propulsion Equipment									
1 0110 LM-2500 Gas Turbine	Α		6.3	ı.	7.7		7.5	;	8.9 U
2 0120 Allison 501K Gas Turbine	A		7.0		3.4		5.9		6.9 U
3 0157 Steam Propulsion Improvement	A		1.1		0.2		0.5		0.6 U
4 0180 Other Propulsion Equipment	A		9.3		7.8		12.1		6.2 U
Generators	^		3.0	•	7.0		12.1	l	0.2 0
5 0260 Other Generators	Α		5.0	1	_		1.8	2	9.2 U
Pumps	^		0.0	,			1.0	,	5.2 0
6 0320 Other Pumps	Α		0.8	ł	0.1		0.4	1	4.1 U
Propellers	,,		0.0	,	0.1		0.		4.1 0
7 0510 Submarine Propellers	Α		_		36.4		_		13.3 U
8 0540 Other Propellers and Shafts	A		1.5	;	2.8		1.5	5	2.9 U
Navigation Equipment	,,		1.0	,	2.0		1.0	,	2.0 0
9 0670 Other Navigation Equipment	Α		25.7	•	26.5		31.6	3	46.0 U
Underway Replenishment Equipment	, ,		20.7		20.0		01.0	,	10.0 0
10 0740 Underway Replenishment Equipm	Α		11.7	•	11.6		8.2	<b>)</b>	8.7 U
Periscopes	, ,						0.2	-	0 0
11 0831 Sub Periscopes & Imaging Equi	Α		23.9	)	31.9		32.1	1	27.9 U
Other Shipboard Equipment	, ,		20.0		01.0		02.1		27.00
12 0910 Firefighting Equipment	Α		15.3	}	9.0		14.1		16.5 U
13 0925 Command and Control Switchboa	Α		4.6		6.8		8.0		8.1 U
14 0935 Pollution Control Equipment	В		103.2		127.5		156.8		218.6 U
15 0940 Submarine Silencing Equipment	A		5.0		4.5		4.3		3.5 U
16 0945 Submarine Batteries	Α		7.2		9.3		9.0		8.9 U
17 0949 SSN21 Class Support Equipment	Α		4.9		20.8		6.4		15.9 U
18 0950 Strategic Platform Support Eq	Α		4.4		9.0		6.4		6.9 U
19 0955 DSSP Equipment	Α		6.5	;	5.1		7.3	3	7.4 U
20 0975 Minesweeping Equipment	Α		0.1		4.0	)	4.9	)	0.4 U
21 0980 HM&E Items Under \$2 Million	Α		33.8	3	28.8		51.1	1	84.6 U
22 0983 Surface IMA	Α		1.4		2.4		2.0		0.1 U
23 0987 Radiological Controls	Α		0.1		0.2		0.2		0.3 U
24 0988 Mini/Micromini Electronic Rep	Α		1.0		0.9		0.5		0.5 U
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FY 1998/FY 1999 PROCUREMENT PROGRAMS

# EXHIBIT P-1 DEPARTMENT OF THE NAVY

APPROPRIATION: 1810N Other Procurement, Navy DATE: 02/04/97

		DOLLARS						М	ILLIONS OF I	OOLLARS
	IDENT	ENT FY 1998 FY 1996 -		96	FY 19	997	FY 1998 FY 1		FY 19	999
LINE NO ITEM NOMENCLATURE	CODE	UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
Reactor Plant Equipment										
25 1010 Reactor Power Units	Α			-		189.3	3	108.5	;	233.3 U
26 1020 Reactor Components	Α			184.9	9	179.2	2	193.9	)	198.2 U
Ocean Engineering										
27 1130 Diving and Salvage Equipment	Α			7.8	3	8.5	5	4.9	)	5.6 U
28 1140 EOD Underwater Equipment	В			5.1	1	5.1		9.1		8.7 U
Small Boats										
29 1210 Standard Boats	Α			5.8	3	4.5	5	4.9	)	5.6 U
Training Equipment										
30 1320 Other Ships Training Equipmen	Α			4.9	9	1.4	ļ	1.8	3	1.9 U
Production Facilities Equipment										
31 1415 Production Support Facilities	Α			6.9	9	2.9	)	0.4	ļ	0.4 U
32 1445 Operating Forces IPE	Α			3.0	3	0.9	)	0.9	)	0.9 U
Other Ship Support										
33 1480 Nuclear Alterations	Α			118.5	5	67.1		74.1		109.8 U
34 1490 Modernization Support	Α			3.0	)	-		-		- U
TOTAL Ships Support Equipment				617.8	3	815.6	3	771.1		1070.8

# Other Procurement, Navy Program and Financing (in Thousands of dollars) SUMMARY

Budget Plan (amounts for PROCUREMENT actions programed) Identification code 17-1810-0-1-051 1996 actual 1997 est. 1998 est. 1999 est. Program by activities: Direct program: 617,796 815,611 771,120 1,070,756 781,611 1,044,672 925,763 1,583,978 192,128 249,793 169,250 255,932 396,264 468,410 539,662 692,543 00.0101 Ships support equipment 00.0201 Communications and electronics equipment 00.0301 Aviation support equipment 00.0401 Ordnance support equipment 00.0501 Civil engineering support equipment 46,716 43,943 53,610 81,860 93,966 67,709 56,528 127,373 00.0601 Supply support equipment 60,850 00.0701 Personnel and command support equipment 115,439 70,615 183,379 202,217 248,717 302,318 00.0801 Spares and repair parts 2.427.299 2.892.355 2.825.500 4.185.375 00.9101 Total direct program 70,033 42,000 42,000 42,000 01.0101 Reimbursable program ------10.0001 Total 2,497,332 2,934,355 2,867,500 4,227,375 Financing: Offsetting collections from: 11.0001 Federal funds(-) -1,918 -42,000 -42,000 -42,000 14.0001 Non-Federal sources(-) -68,11517.0001 Recovery of prior year obligations Unobligated balance available, start of year: 21.4002 For completion of prior year budget plans 21.4003 Available to finance new budget plans -27,495 -14,20021.4009 Reprograming from/to prior year budget plans -14,000 22.1001 Unobligated balance transferred to other accounts 4,200 Unobligated balance available, end of year: 24.4002 For completion of prior year budget plans 24.4003 Available to finance subsequent year budget plans 14,200 39.0001 Budget authority 2,400,004 2,882,355 2,825,500 4,185,375 \_\_\_\_\_\_ Budget authority: 40.0001 Appropriation 2,455,442 3,067,944 2,825,500 4,185,375 40.3601 Appropriation rescinded (unob bal) -8,828 -10,000 40.7501 -6,439 Reduction pursuant to P.L. 104-208 (-), 8037(e) 41.0001 Transferred to other accounts (-) -76,948 -169,150 42.0001 Transferred from other accounts 30,338 2,400,004 2,882,355 2,825,500 4,185,375 43.0001 Appropriation (adjusted)

Other Procurement, Navy
Program and Financing (in Thousands of dollars) SUMMARY Obligations

	Obligations						
Identification code 17-1810-0-1-051	 1996 actual	1997 est.	1998 est.	1999 est.			
Program by activities:							
Direct program:							
00.0101 Ships support equipment			792,152				
00.0201 Communications and electronics equipment	871,323	1,097,955	899,167	1,533,267			
00.0301 Aviation support equipment	176,903	238,046	177,033 474,729	240,993			
00.0401 Ordnance support equipment	398,426	404,965	474,729	654,593			
00.0501 Civil engineering support equipment	65,939	42,457	51,387 61,691	73,857			
00.0601 Supply support equipment	100,513	77,535	61,691	110,693			
00.0701 Personnel and command support equipment	193,184	29,539	60,175	65,619			
00.0801 Spares and repair parts	215,400	179,567	216,931	284,702			
00.9101 Total direct program	2,618,281	2,754,788	2,733,265	3,916,743			
01.0101 Reimbursable program	62,124	50,930	42,000	42,000			
10.0001 Total	2,680,405	2,805,718	2,775,265	3,958,743			
Financing:							
Offsetting collections from:							
11.0001 Federal funds(-)	-4,591	-42,000	-42,000	-42,000			
14.0001 Non-Federal sources(-)	-66,891						
17.0001 Recovery of prior year obligations	-21,397						
Unobligated balance available, start of year:							
21.4002 For completion of prior year budget plans		-499,346	-627,983	-720,218			
21.4003 Available to finance new budget plans	-27,495	-14,200					
21.4009 Reprograming from/to prior year budget plans							
22.1001 Unobligated balance transferred to other accounts		4,200					
Unobligated balance available, end of year:							
24.4002 For completion of prior year budget plans			720,218	988,850			
24.4003 Available to finance subsequent year budget plans	14,200						
39.0001 Budget authority		2,882,355	2,825,500	4,185,375			
Budget authority:							
40.0001 Appropriation	2,455,442	3,067,944	2,825,500	4,185,375			
40.3601 Appropriation rescinded (unob bal)	-8,828	-10,000					
40.7501 Reduction pursuant to P.L. 104-208 (-), 8037(e)		-6,439					
41.0001 Transferred to other accounts (-)		-169,150					
42.0001 Transferred from other accounts	30,338						
43.0001 Appropriation (adjusted)	2,400,004	2,882,355	2,825,500	4,185,375			

# Other Procurement, Navy Program and Financing (in Thousands of dollars) SUMMARY

Obligations Identification code 17-1810-0-1-051 1996 actual 1997 est. 1998 est. 1999 est. Relation of obligations to outlays: 71.0001 Obligations incurred 2,608,923 2,763,718 2,733,265 3,916,743 72.1001 Orders on hand, SOY -30,569 -86,326 -86,326 -86,326 4,671,807 3,793,123 3,694,860 3,679,591 86,326 86,326 86,326 86,326 -3,793,123 -3,694,860 -3,679,591 -4,506,636 72.4001 Obligated balance, start of year 74.1001 Orders on hand, EOY 74.4001 Obligated balance, end of year 77.0001 Adjustments in expired accounts (net) 70,950 78.0001 Adjustments in unexpired accounts -21,397 3,592,917 2,861,981 2,748,534 3,089,698 90.0001 Outlays (net)

# Other Procurement, Navy Object Classification (in Thousands of dollars) SUMMARY

Identification code 17-1810-0-1-051	1996 actual	1997 est.	1998 est.	1999 est.
Direct obligations:				
125.101 Advisory and assistance services  Purchases goods/services (inter/intra) Fed accounts	39,841	40,866	36,534	43,623
125.303 Purchases from revolving funds	699,254	677,669	787,453	868,016
126.001 Supplies and materials	655,400	795,655	634,436	959,263
131.001 Equipment	1,223,786	1,240,598	1,274,842	2,045,841
199.001 Total Direct obligations	2,618,281	2,754,788	2,733,265	3,916,743
Reimbursable obligations:				
225.201 Other services with the private sector	33,363			
231.001 Equipment	28,761	50,930	42,000	42,000
299.001 Total Reimbursable obligations	62,124	50,930	42,000	42,000
999.901 Total obligations	2,680,405	2,805,718	2,775,265	3,958,743

# Comparison of FY 1996 Financing as reflected in FY 1997 Budget with 1996 Financing as Shown in the FY 1998 Budget

(\$ in Thousands)

	Financing per	Financing Per	Increase (+) or
	FY 1997 Budget	FY 1998 Budget	Decrease (-)
Program Requirements (Total)	\$2,457,431	\$2,497,332	+\$39,901
Program Requirements (Service Account)	(\$2,421,431)	(\$2,427,299)	(+\$5,868)
Program Requirements (Reimbursable)	\$36,000	\$70,033	+\$34,033
Appropriation (Adjusted)	\$2,399,131	\$2,400,004	+\$873

Explanation of Changes in Financing

The Fiscal Year 1996 program has changed since the presentation of the FY 1997 budget as noted below:

- 1. <u>Program Requirements</u> increased by \$39,901K, \$5,868K for direct service and \$34,033 reflecting increased reimbursable requirements.
- 2. <u>Appropriation (Adjusted)</u>. There has been a minor net increase to the appropriation of \$873K reflecting transfers from other accounts for the Drug Interdiction Program.

# Comparison of FY 1996 program requirements as reflected in the FY 1997 Budget with FY 1996 program requirements as shown in the FY 1998 Budget

# Summary of Requirements (\$ In Thousands)

	Total Program	Total Program	
	Requirements per	Requirements per	Increase (+) or
	FY 1997 Budget	FY 1998 Budget	Decrease (-)
Ship Support Equipment	\$610,985	\$617,796	+\$6,811
Communications & Electronic Equipment	783,792	781,611	-2,181
Aviation Support Equipment	197,039	192,128	-4,911
Ordnance Support Equipment	399,451	396,264	-3,187
Civil Engineering Support Equipment	46,442	46,716	+274
Supply Support Equipment	96,277	93,966	-2,311
Personnel & Command Support Equip	96,196	115,439	+19,243
Spares & Repair Parts	191,249	183,379	-7,870
Total Fiscal Year Program	\$2,421,431	\$2,427,299	+\$5,868

## Explanation by Budget Activity

(\$ In Thousands)

- 1. <u>SHIP SUPPORT EQUIPMENT (+\$6,811)</u> Net mid-year review increases for the Acquisition Center of Excellence (ACE), Other Navigation Equipment, and Hull, Mechanical, & Electrical Items under \$2 Million.
- 2. <u>COMMUNICATIONS & ELECTRONIC EQUIPMENT (-\$2,181)</u> Net reduction used for unfunded Investment/Expense items and the Acquisition Center of Excellence (ACE).
- 3. <u>AVIATION SUPPORT EQUIPMENT (-\$4,911)</u> Net reduction used for unfunded Investment/Expense items and the Acquisition Center of Excellence (ACE).
- 4. <u>ORDNANCE SUPPORT EQUIPMENT (-\$3,187)</u> Net reduction used for unfunded Investment/Expense items and the Acquisition Center of Excellence (ACE).
- 5. CIVIL ENGINEERING SUPPORT (+\$274) Net minor adjustment.
- 6. <u>SUPPLY SUPPORT EQUIPMENT (-\$2,311)</u> Net reduction used for unfunded Investment/Expense items and the Acquisition Center of Excellence (ACE).
- 7. PERSONNEL & COMMAND SUPPORT (+\$19,243) Net increase for unfunded Investment/Expense items.
- 8. <u>SPARES & REPAIR PARTS (-\$7,870)</u> Net reduction used for unfunded Investment/Expense items and the Acquisition Center of Excellence (ACE).

# Comparison of FY 1997 Financing as reflected in FY 1997 Budget with 1997 Financing as Shown in the FY 1998 Budget

(\$ In Thousands)

	Financing per	Financing Per	Increase (+) or
	FY 1997 Budget	FY 1998 Budget	Decrease (-)
Program Requirements (Total)	\$2,750,195	\$2,934,355	+\$184,160
Program Requirements (Service Account)	(2,714,195)	(\$2,892,355)	(+178,160)
Program Requirements (Reimbursable)	\$36,000	\$42,000	+6,000
Appropriation (Adjusted)	\$2,714,195	\$2,882,355)	+\$168,160

## Explanation of Changes in Financing

The Fiscal Year 1996 program has changed since the presentation of the FY 1997 budget as noted below:

1. <u>Program Requirements</u>. There has been a net increase to the appropriation (adjusted) of \$168,160. This net change is comprised of an increase in program requirements (+\$178,160), less rescissions of (-\$10,000).

# Comparison of FY 1997 program requirements as reflected in the FY 1997 Budget with FY 1997 program requirements as shown in the FY 1998 Budget

## Summary of Requirements (\$ in Thousands)

	Total Program	Total Program	
	Requirements per	Requirements per	Increase (+) or
	FY 1997 Budget	FY 1998 Budget	Decrease (-)
Ships Support Equipment	\$868,175	\$815,611	-\$52,564
Communications and Electronic Equip	865,974	1,044,672	+178,698
Aviation Support Equipment	199,105	249,793	+50,688
Ordnance Support Equipment	464,903	468,410	+3,507
Civil Engineering Support Equip	38,057	43,943	+5,886
Supply Support Equipment	69,153	67,709	-1,444
Personnel and Command Support Equip	0	0	0
Spares and Repair Parts	208,828	202,217	-6,611
Total Fiscal Year Program	\$2,714,195	\$2,892,355	+\$178,160

# Explanation by Budget Activity

(\$ in Thousands)

- 1. <u>Ships Support Equipment (-\$52,564)</u> Changes reflects FY 1997 Congressional reductions (-\$63,747), Congressional increases (+10,000), and below threshold reprogramming (BTR) actions (-\$1,183).
- 2. <u>Communications and Electronics Equipment (+\$178,698)</u> Changes reflects FY 1997 Congressional reductions (-\$28,253), Congressional increases(+\$204,674), and below threshold reprogramming (BTR) actions (+\$2,277).
- 3. <u>Aviation Support Equipment (+\$50,688)</u> Changes reflects FY 1997 Congressional reductions (-\$8,079), Congressional increases(+\$166,558), and transfers to the Air Force (-\$107,791).
- 4.) Ordnance Support Equipment (+\$3,507) Changes reflects FY 1997 Congressional reductions (-\$17,033), Congressional increases(+\$22,000), and below threshold reprogramming (BTR) actions (-\$1,460).
- 5. <u>Civil Engineering Support Equipment (+\$5,886</u>) Changes reflects FY 1997 Congressional reductions (-\$931) and Congressional increases(+\$6,817).
- 6. <u>Supply Support Equipment (-\$1,444)</u> Changes reflects FY 1997 Congressional reductions (-\$1,444).
- 8. <u>Spare and Repair Parts (-\$6,611)</u> Changes reflects FY 1997 Congressional reductions (-\$4,611) and below threshold reprogramming (BTR) actions (-\$2,000).

#### CLASSIFICATION:

## **UNCLASSIFIED**

	OPN BU	DGET ITEM J	USTIFICATIO	N SHEET		DATE: FEBRUARY 1			1997
APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NO						P-1 ITEM NOMENCLATURE			
OTHER PRO	CUREMENT I	NAVY BA1:							
SHIPS SUPP	SUPPORT EQUIPMENT				LM2500 GAS TURBINE (81GA) (0110)				
	1996	1997	1998	1999	2000	2001	2002	2003	
QUANTITY									
COST									
(In Millions)	\$6.3	\$7.7	\$7.5	\$8.9	\$8.7	\$8.9	\$9.1	\$9.3	

#### LM2500 GAS TURBINE (81GA) (0110)

The LM2500 Marine Gas Turbine and associated Engineering Control Systems provide main propulsion for the DD 963, DDG 993, FFG 7, CG 47, DDG 51, and AOE 6 ship Classes. Procurement of improved hardware developed as a result of the Component Improvement Program (CIP) will facilitate projected MTBR growth and reduce life cycle costs. The LM2500 is composed of two major subassemblies, the gas generator and power turbine. In order to maintain the capability to provide replacement subassemblies a sufficient spare inventory of gas generators and power turbines in containers must be on hand. As new ships and differently configured LM2500 engines enter the Fleet, additional spare gas generators need to be procured in order to maintain a minimum inventory. Marine Gas Turbine Special Support Equipment (SSE) is required to provide increased depot and intermediate repair capability. Procurement of this SSE for depot repair will enable timely processing of the single shank turbine gas generator and other new configurations. Procurement of intermediate level SSE will enable repairs that would otherwise result in engine changeouts.

Unit Costs are not applicable since several items are being procured.

- A. Modification Program (GA009)
- 1. Procurement of improved hardware for installation in LM 2500 gas generators, power turbines, and related equipment is essential to obtain the projected growth in the mean time between removals (MTBRs) and thus increase the reliability of fleet installed engines. These engines and associated control systems will provide main propulsion for the DD 963, DDG 993, FFG 7, CG 47, DDG 51, and AOE 6 Classes.
- 2. Failure to procure improved hardware developed as a result of the Component Improvement Program (CIP) will prevent achievement of the projected MTBR growth and significantly increase the LM 2500 life cycle costs. These costs include:
- a. Increased requirements for spare gas generators, power turbines and containers
- b. Increased requirements for depot repair facility special support equipment
- c. Increased repair and transportation costs ( as engines will need to be processed through the repair facility at an increased frequency). Inventory

  Objective not required. Unit cost varies.

**CLASSIFICATION:** 

OPN BUDGET ITEM JUSTIFICATION SHEET	DATE: FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT NAVY BA1: SHIPS SUPPORT EQUIPMENT	LM 2500 GAS TURBINE (81GA) (0110)

- B. Gas Generator in Container (GAO10)
- 1. Each LM 2500 engine is composed of two major subassemblies, the gas generator and the power turbine.
- 2. The Stock Rotating Spares Program is based upon a major engine subassembly procurement concept. Differences in projected removal rates of the gas generator and power turbine permit the establishment of separate spare stocking levels for each. The inventory of spare gas generators required during the support period associated with FY 96/97 Procurement is based upon:
- a. Minimum quantities required to support projected peacetime operating requirements in the support period
- b. Expedited handling and processing pipeline times which reflect NAVSEA actual historical experience
- c. Attainment of the gas generator projected mean time between removal (MTBR)
- d. Four forward prepositioning points
- e. Centralized repair of removed units at one facility
- f. A 90% probability of having a spare available when required at a prepositioning point
- g. Current ship delivery schedule
- 3. LM 2500 gas generator modifications have been developed for improved reliability and increased power (upgraded). The new upgraded engine will be installed in the DDG 51 Class and AOE 6 Class. The upgraded gas generator will not be interchangeable with the current version, (installed on board, DD 963, 993 Class, and CG-47 54), however, the power turbines are interchangeable. As a result, spare gas generator requirements will be determined for each independently.
- 4. The total lead time for the procurement of these major engine subassemblies is 30 months.
- 5. Procurement of gas generator as stock rotating spares is required with FY 97 thru FY 03 funds to support fleet installations.
- 6. Normal peace time operation for installations in the ship classes is projected as: 1380 hours per engine per year for installation in the DDG 51 Class ships and 1740 hours per year for the AOE 6 class (4 installations per ship both classes). As additional operating experience is obtained, engine operating time will be continually evaluated and support requirement adjusted accordingly.

OPN BUDGET ITEM JUSTIFICATION SHEET DATE: FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIP LM 2500 GAS TURBINE (81GA) (0110)

- 7. Pipeline segments and their associated realistic time projections for gas generators are: 3 days for removal and preparation for shipment: 18 days to return the unit to the designated repair point: 3 days to induct the unit into rework: 120 days for engine analysis, repair, installation of required modifications, test and preservation: 13 days to move a replacement unit to the prepositioned stocking point from the designated repair point: and 3 days for installation. The total turn-around pipeline time is 160 days for the LM 2500 gas generator
- 8. During the FY 96 support period, the MTBR is projected to be 25,624 hours. This projection is based on the improved reliability of the new configuration.
- 9. The attainment of LM 2500 gas generator recommended spare engine inventory level of 11 engines through (FY 97 procurement) is considered to represent the minimum requirement based on an evaluation of the risks associated with providing the fleet support.
- 10. Failure to procure the recommended gas generator classes through FY 97 would severely impact the capability to provide replacement class engines to the DDG 51 and AOE 6 ships.
- GA010 The Inventory Objective is 20. 11 units have been Procured in Prior years. 3 are included in the Budget. 5 are to be Procured in subsequent year years. Unit cost varies.
- C. Engineering Control System Modifications (GAO12)
- 1. The Engineering Control System consists of sensors, data acquisition units, processors, and operator consoles. Peripheral devices include bell and data loggers, printers, tape readers, mass storage devices and tape recorders. These end items are comprised each of printed circuit boards, enclosures, meters, CRTs, indicators/switches, and power supplies. Inventory objectives not required. Unit cost varies for each mod kit procured.

**CLASSIFICATION:** 

## **CLASSIFICATION:**

## UNCLASSIFIED

OPN BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE

P-1 SHOPPING LIST

1

OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT LM 2500 GAS TURBINES (81GA)

D. SPECIAL SUPPORT EQUIPMENT (SSE) (GA014)

1. Procurement of Marine Gas Turbine SSE is required to provide increased depot repair capability to support the DD963, DDG993, FFG 7, DDG 51, AOE 6 and CG 47 class ships. This is accomplished by:

- a. Increasing the capacity of the Depot Repair Point (DRP) (i.e., Increase the number of gas turbines that can be simultaneously processed) and by providing the equipment necessary to support the single shank turbine engine for the DDG 51 Class and by providing the equipment necessary to incorporate new modifications. This SSE is also necessary for repair of single shank engines on the CG 53 and out;
- b. Providing the SIMAs with special support equipment necessary to alleviate engine changeouts.
- 2. Failure to fund this requirement would cause queuing of repairable assemblies at the DRP. This would increase the repairable pipeline, which would jeopardize the capability of providing, when required, a replacement assemble (gas generator power turbine to the fleet). Reduced operating capabilities or delays in mission essential operation would result from an inability to provide a spare assembly when required. Inventory objective not required. Unit cost varies when procuring mod kits.

#### PRODUCTION ENGINEERING - GA830:

The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, signal flow diagrams, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts Lists (APL's) and engineering in support of final design reviews. This work can be accomplished by NAVSSES as the in service Engineering agent, other Naval activities or contractors as appropriate.

**CLASSIFICATION:** 

**DATE: FEBRUARY 1997** 

VEAPON EXHIBIT (	I SYSTEMS COST ANALYSIS (P-5)	PROGRAM COST BRE	AKDOWN						DATE: FEBRUARY 199	7
APPROF	PRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCL	ATURE/SUBH	EAD				
OTHER P	ROCUREMENT NAVY BA 1: SHIPS SUPP	ORT EQUIPMENT		LM2500 GAS TURBI	NE 81GA 0110	)				
						THOUSANDS OF DO	LLARS			
COST	ELEMENT OF COST	IDENT CODE		FY 96		FY 97		FY 98		FY 99
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS
	N86 SURFACE SUPPORT									
3A009	MODIFICATION PROGRAM	Α		3,657		3,541		3,236		4,323
GA010	GAS GENERATOR	Α			1	2,442	1	2,549	1	2,600
3A012	ENGINEERING SYSTEM MOD	A		1,924		1,055		1,153		1,400
3A014	SPECIAL SUPPORT EQUIPME	Α		86		67		66		48
GA830	PRODUCTION ENGINEERING			631		629		544		529
	TOTAL			6,298		7,734		7,548		8,906

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
1 5

Exhibit P-5 Weapon System Cost Analysis
CLASSIFICATION:
UNCLASSIFIED

CLASSIFICATION	OPN BUDGET PROCUR	EMENT HIST	ORY AND PLAN	NNING (P-5	4)		A. DATE	FEBRUARY 1	997	
B. APPROPRIATION					OMENCLAT					
OTHER PROCUREM	ENT NAVY BA 1: SHIPS	SUPPORT E					S TURBINE (	81GA) 0110		
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLI
Modification Program (GA009)						40				
FY 96 FY 96	Adv Rel & Maint General Elec Ohio	LOE BOA/MP	NAVSEA NAVSEA	Feb-96 Feb-96	Feb-98 Feb-98		350,000 3,307,000	YES YES	NO NO	
FY 97 FY 97	General Elec Ohio Adv Rel & Maint	BOA/MP LOE	NAVSEA NAVSEA	Jan-97 Mar-97	Jan-99 Mar-99		3,147,000 394,000	YES YES	NO NO	
FY 98 FY 99	General Elec Ohio General Elec Ohio	BOA/MP BOA/MP	NAVSEA NAVSEA	Jan-98 Jan-99	Jan-00 Jan-01		3,236,000 4,323,000	YES YES	NO NO	
Gas Generator in Container (GA010)										
FY97	General Elec CINN, OH	SS/BASIC	NAVSEA	Jan-97	Jan-99	1	2,442,000	YES	NO	
FY 98 FY 99	General Elec CINN, OH General Elec CINN, OH	SS/OPTION SS/OPTION	NAVSEA NAVSEA	Jan-98 Jan-99	Jul-00 Jan-01	1	2,549,000 2,606,000	YES YES	NO NO	
ELEC CONTROL SYS (GA012)	G									
FY 96	USIArlington, VA	LOE	NAVSEA	Feb-96	Feb-97		30,000			
FY 96 FY 96	NSWC Phila, PA NSWC Phila, PA	WR PO	NAVSEA NAVSEA	Jan-96 Feb-96	Sep-96 Dec-96		84,000 250,000	N/A	N/A	
FY 96	NSWC Phila, PA	PO	NAVSEA	Dec-95	Dec-96		320,000	N/A N/A	N/A	
FY 96	NSWC Phila, PA	PO	NAVSEA	Mar-96	Dec-96		434,000	N/A	N/A	
FY 96	NSWC Phila, PA	WR	NAVSEA	Mar-96	Sep-96		150,000	N/A	N/A	
FY 96	NSWC Phila, PA	WR	NAVSEA	Apr-96	Sep-96		42,000	N/A	N/A	
FY 96	NSWC Phila, PA	WR	NAVSEA	Jul-96	Sep-96		25,000	N/A	N/A	
FY 96	SUPSHIP PASCAGOULA, MS	RCP/FP	NAVSEA	May-96	May-97		476,000	N/A	N/A	
FY 96	PDI Annapolis, MD	FP	NAVSEA	Mar-96	Mar-97		83,000			

D. REMARKS

\*Sole Source Justification : Original Equipment Manufacturer (OEM)

CLASSIFICATION:	UNCLASSIFIE	•								
OF	PN BUDGET PROCUREME	NT HISTOR	Y AND PLANNIN	IG (P-5A)			A. DATE	FEBRUARY	1997	
B. APPROPRIATION/BU				P-1 ITEM	NOMENCL	ATURE	•			
OTHER PROCUREMENT	NAVY BA1: SHIPS SUPPO						<b>AS TURBIN</b>	E (81GA) 011		
		CONTRAC			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR AND		CONTRACTED					AVAILABLE		WHEN
FISCAL YEAR	LOCATION	TYPE	BY	DATE	DELIVERY	QUANTIT	UNIT COST	I NOW	REQ'D	AVAILABL
ELEC CONTROL SYS										
(GA012)										
FY 96	JJMA Arlington, VA	LOE	NAVSEA	Mar-96	Mar-97		30.000	N/A	N/A	
FY 97	USI Arlington, VA	LOE	NAVSEA	Jan-97	Jan-98		55,000	YES	NO	
FY 97	NSWC Philadelphia, PA		NAVSEA	Jan-97	Sep-97		450,000	YES	NO	
FY 97	NSWC Philadelphia, PA		NAVSEA	Jan-97	Sep-97		250,000	YES	NO	
FY 97	NSWC, Phila, PA	WR	NAVSEA	Jan-97	Sep-97		300,000	YES	NO	
FY 98	USI, Arlington, VA	LOE	NAVSEA	Jan-98	Jan-99		30,000	YES	NO	
FY 98	PDI Annapolis, MD	FP	NAVSEA	Jan-98	Jan-99		50,000	YES	NO	
FY 98	JJMA Arlington, VA	LOE	NAVSEA	Jan-98	Jan-99		400,000	YES	NO	
FY 98	NSWC, Phila, PA	WR	NAVSEA	Jan-98	Sep-98		673,000	YES	NO	
FY 99	USI Arlington, VA	LOE	NAVSEA	Jan-99	Jan-00		30,000	YES	NO	
FY 99	PDI Annapolis, MD	FP	NAVSEA	Jan-99	Jan-00		50,000	YES	NO	
FY 99	JJMA Arlington, VA	LOE	NAVSEA	Jan-99	Jan-00		350,000	YES	NO	
FY 99	LITTON GNC Woodland, CA	LOE	NAVSEA	Jan-99	Jan-00		220,000	YES	NO	
FY 99	NSWC, Phila, PA	WR	NAVSEA	Jan-99	Sep-99		750,000	YES	NO	
SPECIAL SUPPORT EQUIPMENT (GA014)										
FY 96	NAD North Island, CA.	PX	NAVSEA	Mar-96	Sep-96	1	86.000	N/A	N/A	
FY 97	NAD North Island, CA.	PX	NAVSEA	Jan-97	Sep-97	1	67,000	N/A	N/A	
FY 98	NAD North Island, CA.	PX	NAVSEA	Jan-98	Sep-98		66,000	YES	NO	
FY 99	NAD North Island, CA.	PX	NAVSEA	Jan-99	Sep-99		48,000	YES	NO	
	, , , , , ,									
D. REMARKS						<u> </u>	<u> </u>			
D. KEMAKKO										

UNCLASSIFIED CLASSIFICATION:

	OPN BUDGET PROCUREME	NT HISTORY AND I	PLANNING (P-5A)				A. DATE		FEBRUARY 1997	
3. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT NAVY BA1: SHIPS SUPPO	RT EQUIPMENT			P-1 ITEM NOMENCI	LATURE	LM2500 GAS T	URBINE (81GA) 0110			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABI
PRODUCTION ENGINEERING										
FY 96	NSWC Phila, PA	РО	NAVSEA	Feb-96	Sep-97		566,000	N/A	N/A	
FY 96	Adv Reliability	LOE	NAVSEA	Jun-96	Jun-97		65,000	N/A	N/A	
FY 97	JJMA Arlington, VA	LOE	NAVSEA	Dec-96	Dec-97		100,000	N/A	N/A	
FY 97	ockheed Synval, CA		NAVSEA	Dec-96	Dec-97		5.000	N/A	N/A	
FY 97	JJMA Arlington, VA	LOE	NAVSEA	Dec-96	Dec-97		419,000	N/A	N/A	
FY 97	LITTON SYS INC, CA	FF	NAVSEA	Dec-96	Dec-97		5,000	N/A N/A	N/A N/A	
FY 97	LIMA Arlington VA		NAVSEA	Mar-97	Mar-98		100.000	N/A N/A	N/A N/A	
FY 98	JJMA Arlington, VA	LOE	NAVSEA	Jan-98				N/A N/A	N/A N/A	
	NSWC Phila, PA	WR			Sep-98		114,000			
FY 98	JJMA Arlington, VA	LOE	NAVSEA	Sep-97	Sep-98		430,000	N/A	N/A	
FY 99	NSWC Phila, PA	WR	NAVSEA	Jan-99	Sep-99		529,000	N/A	N/A	
REMARKS										

DD Form 2445-1, JUL 87

ITEM NO. PAGE NO. 8 1

CLASSIFICATION: UNCLASSIFIED

	OPN BUDG	ET ITEM JUST	<b>FIFICATION SI</b>	HEET P-40		DA	TE:	FEBRUARY 1997		
<b>APPROPRIAT</b>	ION/BUDGET	ACTIVITY			P-1 ITEM NO	IOMENCLATURE				
OTHER PROC	UREMENT, N	AVY BA 1: SH	IIPS SUPPOR	T EQUIPMENT		Allison 501-	K Gas Turbine	(81GF)(0120)		
	1996	1997	1998	1999	2000	2001	2002	2003		
QUANTITY										
COST										
(In Millions)	\$7.0	\$3.4	\$5.9	\$6.9	\$6.7	\$6.8	\$6.9	<b>\$7.1</b>		

ALLISON 501-K GAS TURBINE (81GF) (0120)

The 501-K Series gas turbines are used to drive electrical generators. The 501-K17 is used on the DD 963, DDG 993, and CG 47 Class ships. The 501-K34 is an upgraded version used on the DDG 51 Class ship and is not interchangeable with the 501-K17. The stock rotating spares program provides an engine as a single assembly for the replacement of a removed engine during depot repair. As new DDG 51 Class ships enter the Fleet, additional spare 501-K34 engines need to be procured in order to maintain the minimum inventory. Procurement of improved hardware is essential to maintain the MTBR goals and improve the overall reliability of the 501-K engines. Special Support Equipment (SSE) needs to be procured so that depot and intermediate level repairs can be accomplished efficiently and without interruption. This SSE will enable SIMAs to accomplish repairs to avoid engine changeouts and incorporate modifications. Depot level SSE enable establishing an organic depot for engine overhaul and also to increase capacity. The procurement of Production Engineering technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc. is essential to maintain complete life cycle support for the 501-K17/34 programs.

Unit Costs are not applicable since several items are being procured.

A. 501-K34 Stock Rotating Spares (GF001)

- 1. The Stock Rotating Spares Program provides an engine as a single assembly for the replacement of an engine requiring depot repair. The inventory of spare engines required during the support period is based on:
- a. Minimum quantities to support projected peacetime operation of the engine
- b. Expedited handling and processing pipeline times which reflect the actual historical 501-K17 experience
- c. Attainment of the projected mean-time-between -removals (MTBRs)
- d. Prepositioning stocking points: Seven in FY 94 through FY 97.
- e. Centralized repair of removed units at one depot repair facility
- f. A 90% probability of having a spare available when required at a forward prepositioning point
- g. Ship delivery schedule
- 2. The current 501-K17 engine is being replaced by the upgraded more fuel efficient 501-K34 engine commencing with the DDG51 Class. Since the 501-K34 upgraded engine can only be replaced with another upgraded engine the two configurations must be initially spared separately and all spares procurements commencing with the FY 87 procurement have been the 501-K34 configuration.

CLASSIFICATION:

OPN BUDGET ITEM JUSTIFICATION SHEET		DATE:	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NO	MENCLATUR	RE
OTHER PROCUREMENT, NAVY BA 1: SHIPS SUPPORT EQUIPMENT	Allison 501-K	Gas Turbin	e (81GF) (0120)

- 3. Each DDG51 will have three 501-K34 installations. Each installation will drive an electrical generator. A minimum of two installations will be on the line when a ship is operating, and one installation will be operated when the ship is in-port where more electrical power and hotel steam are available or when these shore facilities are not utilized because of the short duration of the in-port period. The average level of peacetime operation for each engine installation is projected as 3,000 hours per year. During the support periods the mean-time-between-removal (MTBR) is projected to be approximately 14,000 hours. This projection is based on the current 501-K17/34 removal interval and the age distribution. The attainment of 501-K34 recommended spare engine inventory level is considered to represent the minimum requirement based on an evaluation of the risks associated with providing required fleet support.
- 4. Pipeline segments and their associated realistic time projections for gas generators are: 3 days for removal and preparation for shipment; 18 days to return the unit to the designated repair point; 3 days to induct the unit into rework; 58 days for engine analysis, repair, installation of required modifications, test and preservation; 13 days to move a replacement unit to the prepositioned stocking point from the designated repair point; and 3 days for installation. The total turn around pipeline time is 98 days for the 501-K Gas Turbine.

The Inventory objective is 14. 5 units have been Procured in Prior years. 2 are included in the Budget. 7 are to be Procured in subsequent years.

- B. Modification Program (GF007)
- 1. Procurement of improved hardware for installation in the 501-K17 engine is essential to maintain, at a minimum, the 14,000 hour MTBR of the engine. Modifications are also essential for components whose failure would not necessitate engine removal, in order to increase the overall reliability of the fleet installed engines. I/O not required. Unit Cost varies.

**CLASSIFICATION:** 

OPN BUDGET ITEM JUSTIFICATION SHEET	DATE	
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATUR	₹E
OTHER PROCUREMENT, NAVY BA 1: SHIPS SUPPORT EQUIP	Allison 501-K Gas Turbin	e (81GF)(0120)

- C. Special Support Equipment (GF009)
- 1. Procurement of Marine Gas Turbine SSE is required to provide increased SIMA and depot repair capability to support the DD, DDG, and CG class ships. SIMA support is accomplished by providing the SIMAs with special support equipment necessary to alleviate engine changeouts and also SSE equipment required to incorporate new modifications that will enhance the life expectancy of the engines. Depot support is accomplished by increasing the capacity of the Depot Repair Point (DRP) (i.e., increase the number of gas turbines that can be simultaneously processed) by providing the necessary equipment required to accomplish this task. I/O not required. Unit Cost varies procuring Mod Kits.
- D. Production Engineering (NAVSSES) (GF830)
- 1. During the production phase of the equipment production engineering supports the review and approval of any production contract technical documentation, or the separate procurement of this documentation to include: Technical manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD), Allowance Parts Lists (APL's) and Engineering in support of final design reviews. This work can be accomplished by NAVSSES as the in-service Engineering agent and other Naval activities or contractors as appropriate.
- 2. Carderock Division, Naval Surface Warfare Center Philadelphia provides engineering services to NAVSEA in support of the 501-K17/34 Modification Program. Support services include technical evaluation of Engineering Change Proposals (ECPs), review of the ECP maintenance engineering elements and determination of ECP impact on repair processing and supply support.

**CLASSIFICATION:** 

3

		\\\= \ D \						1	DATE:	
		WEAPC	ON SYS	STEM COST AN (P-5)	ALYSI	S EXHIBIT			FEB	RUARY 1997
APPROI	PRIATION/BUDGET ACTIVITY				ENCL	ATURE/SUBHE	AD			
OTHER P	ROCUREMENT NAVY BA 1: SHIP	S SUPP	ORT E	Allison 501K G	as Tu	rbine (81GF)(01	20)			
					TOTA	L COST IN THO	UŚAN	DS OF DOLLA	RS	
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	<u>N86</u>									
GF001	501-K34		1	1,002	1	1,002	1	1,030	1	1,053
GF007	MODIFICATION PROGRAM			4,519		2,148		4,672		5,671
GF009	SPECIAL SUPPORT EQUIP (SSE			202		150		157		164
GF830	PRODUCTION ENG			1,323		74		38		27
	TOTAL			7,046		3,374		5,897		6,915

P-1 SHOPPING LIST ITEM NO. PAGE NO. 2 4

CLASSIFICATION: Exhibit P-5 Weapon System Cost Analysis UNCLASSIFIED

			DODGET FRO	DCUREMENT HIS P-5A		DI LAMMING	•			DATE RBRUARY 1	997
APPRO	PRIATION/BUDGE	T ACTIVITY			P-1 ITEM	NOMENCL	ATURE		SUBHEAD		
OTHER	PROCUREMENT I	NAVY BA 1: SHIPS			ALLISON		RINE GAS T	URBINE		31GF	
0007	DOOT EL EMENIT		CONTRACT		414/400	DATE OF			SPECS	SPEC	IF YES
CODE	COST ELEMENT/ FISCAL YEAR	AND LOCATION	& TYPE	CONTRACTED BY	DATE	DELIVERY	QUANTITY	UNIT COST (000)	AVAILABLE NOW	REV REQ'D	WHEN AVAILABL
	501-K34 Stock							(GGG)			
GF001	Rotating Spares										
GF001	FY 96	Allison Indianapolis,IN	*SS/OPTION	NAVSEA	Jul-96	Jan-98	1	\$1,002,000	YES	NO	
	FY 97		*SS/OPTION	NAVSEA	Dec-96	Jan-98	1	\$1,002,000	YES	NO	
	FY 98		*SS/OPTION	NAVSEA	Jan-98	Jul-99	1	1,030,000	YES	NO	
	FY 99	Allison Indianapolis,IN	*SS/OPTION	NAVSEA	Jan-99	Jul-00	1	1,053,000	YES	NO	
GF007	MOD PROGRAM										
	FY 96	NSWC Phila, PA	PO	NAVSEA	Mar-96	Mar-97		688,000	YES	NO	
	FY 96	Allison Indianapolis,IN	ВОА	NAVSEA	Jul-96	Jan-98		3,681,000	YES	NO	
	FY 96	FTSCPAC SAN DIEGO, CA	WR	NAVSEA	May-96	Sep-96		30,000	YES	NO	
	FY 96	FTSCLANT SAN DIEGO, CA	WR	NAVSEA	Jul-96	Sep-96		20,000	YES	NO	
		ADV RELIABILITY 8 MAINT. SCVS.		NAVSEA	Jul-96	Sep-96		80,000	YES	NO	
		ADV RELIABILITY 8 MAINT. SCVS.		NAVSEA	Jun-96	Sep-96		20,000	YES	YES	
	FY 97	Allison Indianapolis,IN	ВОА	NAVSEA	Feb-97	Aug-98		2,148,000	YES	NO	
	FY 98	Allison Indianapolis,IN	ВОА	NAVSEA	Feb-98	Aug-99		4,672,000	YES	NO	
	FY 99	Allison Indianapolis,IN	BOA	NAVSEA	Feb-99	Aug-00		5,671,000	YES	NO	

REMARKS

<sup>\*</sup> Sole Source Justification: Original Equipment Manufacturer (OEM)

			BUDGET	PROCUREMEN P-5A	NT HISTO	RY AND P	LANNING			DATE	JARY 1997
APPROP	RIATION/BUDGET A	CTIVITY			P-1 ITEN	NOMENC	LATURE		SUBHEAD	TEBRO	AKT 1331
OTHER P	ROCUREMENT NAV				ALLISO	N 501-K MA	RINE GAS T	URBINE		81GF	
COST	COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRAC METHOD & TYPE			DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
GF009	SPECIAL SPT EQP	 T 									
	FY 96 FY 97 FY 98 FY 99	NSWC Phila, PA NSWC Phila, PA NSWC PHILA, PA NSWC PHILA, PA		NAVSEA NAVSEA NAVSEA NAVSEA	Jan-96 Jan-97 Jan-98 Jan-99	Jan-97 Jan-98 Jan-99 Jan-00		202,000 150,000 157,000 164,000	YES YES YES YES	NO NO NO	
GF830											
	FY 96	Advanced Marine Enterprise	LOE	NAVSEA	Mar-96	Mar-97		700,000	YES	NO	
	FY 96 FY 96 FY 97 FY 98 FY 99	USI NSWC Phila, PA Adv Rel NSWC Phila, PA NSWC PHILA, PA NSWC PHILA, PA		NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA	Mar-96 Jan-96 May-96 Jan-97 Jan-98 Jan-99	Mar-97 Sep-96 May-97 Sep-97 Sep-98 Sep-99		475,000 123,000 25,000 74,000 38,000 27,000	YES YES YES YES YES YES	NO NO NO NO NO	
REMARK	(S										

OF	N BUDGE	TITEM JUS	STIFICATIO	N SHEET		DA	TE:	FEBRUARY	′ 1997
<b>APPROPRIATION</b>	N/BUDGET A	CTIVITY			P-1 ITEM NO	MENCLATU	RE		
OTHER PROCUR	REMENT NAV	Y BA 1:							
SHIPS SUPPORT	<b>EQUIPMENT</b>	Γ			STEAM PRO	PULSION IM	IPROVEMEN <sup>3</sup>	T 81KQ/0157	
	1996	1997	1998	1999	2000	2001	2002	2003	
QUANTITY									
COST									
(In Millions)	\$1.1	\$0.2	\$0.5	\$0.6	\$1.4	\$0.3	\$0.2	\$0.2	

#### ITEM DESCRIPTION/JUSTIFICATION

The Steam Propulsion Improvement program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties, ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet. Provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during a Regular Overhaul, Selected Restricted Availability, Restricted Availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team.

#### PROPULSION PLANT INSPECTION TOOLING - (KQ052):

The tooling currently in use by Steam Generating Plant Inspectors (SGPI) for inspection of boiler tubes is inefficient and antiquated. Funds will be utilized to procure latest technology inspection system tooling, i.e., laser-optic, ultrasonic, and electro-optic inspection systems. The inspection tooling will be placed at TYCOM designated Intermediate Maintenance Activity or Alteration Installation Team.

#### BOILER HYDRO STATIC TEST KITS - (KQ062):

This tooling will enable facilities/shore IMA units to leak boiler tube joints individually vice having to completely fill, hydro test, and drain boiler when trying to locate leaking tube joints. The IO is 163. 38 units have been procured in prior years. 14 kits are and electro-optic inspection systems. The inspection tooling will be placed at TYCOM designated Intermediate Maintenance included in the budget leaving 111 to be procured in subsequent years. The unit cost for this item varies.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

Classification:

OPN BUDGET ITEM JUSTIFICATION SHEET	DATE:	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY BA 1:	Steam Propulsion Improvement	
SHIPS SUPPORT EQUIPMENT	81KQ/0157	

HYDRAULIC EXPANSION EQUIPMENT FOR LARGER BOILER TUBES - (KQ065): Convention tube installation involves expanding the tube into a tubesheet using cage assembly containing roller pins and a tapered mandrel. Hydraulic tube installation is accomplished using uniform water pressure. Water is forced into a mandrel, which is placed into the tube hole/tube sheet at a preset pressure. A complete tube joint expansion can be done in 5-10 seconds compared to the present method of up to five minutes. There is no specific inventory objection for this project.

MACHALTS - (KQ066): The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment's or systems and limited systems ramifications. The MACHALT program enables changes to be accomplished in a more expeditious manner and eliminates them from the formal SHIPALT process. MACHALTs are most effective for multi-class alterations. One MACHALT can replace several SHIPALTs thereby reducing the number of SHIPALTs in the system. There is no specific Inventory Objective for this project.

PRODUCTION ENGINEERING - (KQ830): The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical manuals, PMS, Level III production drawings, Provisioning Technical documentation (PTD) Program Support Data (PSD) and Allowance Parts Lists (APL's); Engineering in support of the final design reviews. This work can be accomplished by NAVSSES as the in service Engineering agent, other Naval activities or contractors as appropriate.

LHA BOILER DESUPERHEATER - (KQ067): Because the LHA boiler desuperheater is so large, it prevents access to the boiler tubes from the water drum. A leaking boiler tube therefore requires about five days to repair, considering that a 2700 lb. flange and 2000 lb. desuperheater must be removed and replaced. The capability to quickly plug a leaking tube is vital for meeting commitments. A new desuperheater has been designed that permits access, and SHIPALT number LHA 660 has been assigned. Installation of this SHIPALT will also help resolve water drum blind flange leakage which has occurred on various LHA.

#### INSTALLATION OF EQUIPMENT (KQ5IN)

Funding is for installation of equipment including Fleet Modernization Program Installations, Installation of training equipment, and installation of equipment in other shore facilities.

KQDSA - DESIGN SERVICES ALLOCATION - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 and out.

P-1 SHOPPING LIST ITEM NO. PAGE NO. 3

**CLASSIFICATION:** 

**UNCLASSIFIED** 

WEAPON SY	STEM COST ANALYSIS EXHIBIT					DATE:								
	(P-5)							FEBRUARY 1997						
APPROPRIAT	TION/BUDGET ACTIVITY			P-1 ITEM NOMEN	ICLATURE/S	UBHEAD								
	OTHER PROCUREMENT NAVY BA:1 SHIPS SUPPORT EQUIPMEN	т		Steam Broni	ılcion İmr	provement (81KC	)) (0157)							
	BA.I SHIFS SUFFORT EQUIPMEN	<u>'                                    </u>				IN THOUSANDS OF D								
										TOTAL COST  31  12 43  103  32 23 158  391 391 592 31				
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999				
OODL		0002	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS				
	OUDALA DINE (NOT)									ļ				
<b>CQ066</b>	SUBMARINE (N87) MACHALT			<u>135</u>										
14000		A		135										
	SUBTOTAL N87			135										
	SURFACE SHIPS (N86)													
KQ052	PROPULSION PLANT INSPECTION							20		31				
KQ062	BOILER HYDROSTATIC TEST KITS	A		33		24								
KQ830	PRODUCTION ENGINEERING	A		14		<u>5</u>		14		12				
	SUBTOTAL N86	"		47		29		34						
						-		".						
	AIRCRAFT CARRIERS (N88)													
KQ052	PROPULSION PLANT INSPECTION					87		70		103				
KQ062	BOILER HYDROSTATIC TEST KITS	Α		104										
KQ065	HYDRAULIC EXPANSION BOIP													
	LARGER BOILER TUBES			35		29		29		32				
KQ830	PRODUCTION ENGINEERING	A		<u>18</u>		<u>11</u>		<u>17</u>		<u>23</u>				
	SUBTOTAL N88			157		127		116		158				
	EXPEDITIONARY WARFARE N85													
KQ067	BOILER LOW PROFILE													
NQ001	DESUPERHEATERS						2	391	2	301				
	SUBTOTAL N85						2	391	2					
	SUBTUTAL NOS							391		391				
	TOTAL EQUIPMENT			339		156		541		592				
KQ5IN	INSTALLATION			754		88		0		31				
KQDSA	DESIGN SERVICES ALLOCATION									<u>5</u>				
	TOTAL INSTALLATION			754		0		0		36				
	GRAND TOTAL			1,093		244		541		628				
		P-1 SHOPP	ING LIST					CLASSIFICATION	:					
		ITEM NO.		PAGE NO.		Exhibit P-5 Wea								
		3		3		UNC	LASSI	FIED						

#### UNCLASSIFIED CLASSIFICATION:

APPROP	RIATION/BUDGET ACTIVITY			P-5A	P-1 ITEN	/ NOMENC	LATURE		SUBHEAD	FEBRUARY	
	PROCUREMENT NAVY BA 1: SI	HIPS SUPPORT EUQI	PMENT				_,,,,			BLI: 015	700
					STEAM	PROPULSI	ON IMPRO	VEMENT			
			CONTRAC	Γ		DATE OF			SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	VITAND	UNIT	VAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY		COST (000)	NOW	REQ'D	AVAILABL
KQ052	PROPULSION PLANT										
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Dec-96	Sep-97		87,000	N/A	N/A	
	FY 1998	NSWC, PHILA, PA	WR	NAVSEA	Dec-97	Sep-98		90,000	N/A	N/A	
	FY 1999	NSWC, PHILA, PA	WR	NAVSEA	Dec-98	Sep-99		134,000	N/A	N/A	
KQ062	BOILER HYDROSTATIC TEST										
	KITS										
	FY 1996	NSWC, PHILA, PA	РО	NAVSEA	Feb-96	Sep-96		137,000	YES	NO	
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Dec-96	Sep-97		24,000	YES	NO	
KQ066	MACHALT										
	FY 1996	NSWC, PHILA, PA	WR	NAVSEA	Feb-96	Sep-96		135,000	N/A	N/A	
KQ065	HYDRALIC EXPANSION										
	FY 1996	NSWC, PHILA, PA	WR	NAVSEA	Feb-96	Sep-96		35,000	N/A	N/A	
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Dec-96	Sep-97		29,000	N/A	N/A	
	FY 1998	NSWC, PHILA, PA	WR	NAVSEA	Dec-97	Sep-98		29,000	N/A	N/A	
	FY 1999	NSWC, PHILA, PA	WR	NAVSEA	Dec-98	Sep-99		32,000	N/A	N/A	
KQ067	BOILER LOW PROFILE										
	DESUPERHEATER LHA		1				_				
	FY 1998	NSWC, PHILA, PA	РО	NAVSEA	Dec-97	Dec-98	2	195,500	YES	NO	
	FY 1999	NSWC, PHILA, PA	PO	NAVSEA	Dec-98	Dec-99	2	195,500	YES	NO	
KQ830	PRODUCTION ENGINEERING										
	FY 1996	NSWC, PHILA, PA	WR	NAVSEA	Dec-95	Sep-96		32,000	N/A	N/A	
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Dec-96	Sep-97		16,000	N/A	N/A	
	FY 1998	NSWC, PHILA, PA	WR	NAVSEA	Dec-97	Sep-98		31,000	N/A	N/A	
	FY 1999	NSWC, PHILA, PA	WR	NAVSEA	Dec-98	Sep-99		35,000	N/A	N/A	l

P-1 SHOPPING LIST ITEM NO. PAG PAGE NO.

3

CLASSIFICATION:

Exhibit P-5A Procurement History and Planning

**UNCLASSIFIED** 

CLASSIFICATION: UNCLASSIFIED P3A MODIFICATION TITLE: STEAM PROPULSIC MODELS OF SYSTEM AFFECTED: LHA MID			. MODIFICATIO	N											FEBRUARY 1997
DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOP		STONES:	FY 96									TO COMP	TO COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	-	Q	TY & PRIOR C	(1Y FY 97 Q1	IY FY 98 QI	IY FY 99 QI	Y FY 00	QIY	FY 01	QTY FY 02	QTY FY 03	3 QTY	COST	QTY	COST
RDT&E PROCUREMENT QUANTITY INSTALLATION KITS				2	2 0.4 2	2 0.4 6	1.2							0 10 0 0	0.0 2.0 0.0 0.0
INSTALLATION KITS NONRECURRING EQUIPMENT EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS DATA														0 0 0 0	0.0 0.0 0.0 0.0 0.0
TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER INTERIM CONTRACTOR SUPPORT														0 0 0 0	0.0 0.0 0.0 0.0
INSTALLATION OF HARDWARE  FY 96 & PRIOR EQUIPMENT														0	0.0
FY97 EQUIPMENT FY98 EQUIPMENT FY99 EQUIPMENT FY 00 EQUIPMENT FY01 EQUIPMENT						2 0.036 AF	P 0.028	* 2 6	0.02 0.08					0 2 2 6 0	0.0 0.036 0.048 0.080 0.00
FY 02 EQUIPMENT FY03 EQUIPMENT														0	0.00
TOTAL INSTALLATION COST			0.0	0.0	0.0 2	2 0.036	0.028	8	0.10	0.00	0.00		0	10	0.16
TOTAL PROCUREMENT COST TOTAL COST			0.0 0.0	0.0 0.0	0.4 0.4	0.4 0.44	1.2 1.23		0.0 0.10	0.0 0.00	0.00 0.00		0.0 0.0		2.0 2.16
METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRODUCTION DELIVER DATE:	PRIOR Y PRIOR Y		С	DMINISTRAT URRENT YEA URRENT YEA	AR: BU	ME: 6 PRO DGET YEAR: DGET YEAR:	DUCTION   Dec-97 Dec-98		FIME: 12 N BUDGET ' BUDGET '	YEAR 2:	Dec-98 Dec-99				
INSTALLATION SCHEDULE: INPUT ======> FY 98		FY96 1, 2, 3, 4	FY97 1, 2, 3, 4	FY98 1, 2, 3, 4	FY99 1, 2, 3, 4 2	FY00 1, 2, 3, 4	FY01 1, 2, 3, 4		FY02 1, 2, 3, 4	FY03 1, 2, 3, 4	TC 1, 2, 3,	4	TOTAL 2		
FY 99 FY 00 FY 01 FY 02 FY 03 TC					Ī		0020						2 6		
OUTPUT ====>		FY96 1, 2, 3, 4	FY97 1, 2, 3, 4	FY98 1, 2, 3, 4	FY99 1, 2, 3, 4	FY00 1, 2, 3, 4	FY01 1, 2, 3, 4		FY02 1, 2, 3, 4	FY03 1, 2, 3, 4	TC 1, 2, 3,	, 4	TOTAL	_	
FY 98 FY 99 FY 00 FY 01 FY 02 FY 03						0020	2		2 4				2 2 6		
* LHA 3 requires logistic leadti	me due t	o installatior	planning	for SASE							CLAS	SIFICATION	LINCLAS	SIEIED	P-3A
				11 EM	PA 5	GE 5					CLAS	SIFICATION	: UNCLAS	סורובט	

**CLASSIFICATION: UNCLASSIFIED** P3A INDIVIDUAL MODIFICATION FEBRUARY 1997 MODIFICATION TITLE: STEAM PROPULSION IMPROVEMENT MODELS OF SYSTEM AFFECIFOB STANDARD L.O. SYSTEM DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: то то COMPCOMPTOTALITOTAL FY 96 & QTY PRIOF QTY FY 97 QTY FY 98 QTYFY 99 QTY FY 00 QTY FY 01 QTY FY 02 QTYFY 03 QTY COST QTY COST FINANCIAL PLAN (IN MILLIONS) RDT&E PROCUREMENT QUANTITY **INSTALLATION KITS** INSTALLATION KITS NONRECURRING **EQUIPMENT** 0.4 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT

INSTALLATION OF HARDWARE

**FY 96 EQUIPMENT** 

INTERIM CONTRACTOR SUPPORT

OTHER

FY 97 EQUIPMENT									0	0.0
FY 98 EQUIPMENT									0	0.0
FY 99 EQUIPMENT									0	0.0
FY 00 EQUIPMENT									0	0.0
FY 01 EQUIPMENT									0	0.0
FY 02 EQUIPMENT									0	0.0
FY 03 EQUIPMENT									0	0.0
TOTAL INSTALLATION COST	0.5	0.0	0	0.0	0.0	0.0	0.0	0	1	0.5
TOTAL DD 0011D THE NT 000T										
TOTAL PROCUREMENT COST	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.4
TOTAL COST	0.9	0.0	0.00	0.0	0.0	0.0	0.0	0.0		0.9
METHOD OF IMPLEMENT	V Di	MINICTDAT		TIME. DD		I EADTIME: 4	2			

METHOD OF IMPLEMENT ADMINISTRATIVE LEADTIME: **B**RODUCTION LEADTIME: 12 CONTRACT DATE: PRIOR YEAR: May-89 CURRENT YEAR: BUDGET YEAR: N/A **BUDGET YEAR 2: N/A** 

0.5

PRODUCTION DELIVER IPRIOR YEAR: May-90 **CURRENT YEAR: BUDGET YEAR: N/A BUDGET YEAR 2: N/A** 

INSTALLATION SCHEDULE:

INPUT =====:FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TC	
1, 2, 3, 4	1, 2, 3, 4	1 <del>, 2, 3,</del> 4	1 <del>, 2, 3, </del> 4	1 <del>, 2, 3,</del> 4	1 <del>, 2, 3,</del> 4	1 <del>, 2, 3, </del> 4	1 <del>, 2, 3, 4</del>	1 <del>, 2, 3,</del> 4	TOTAL
FY96 & Prior 1									1
OUTPUT ====:FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TC	
1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	TOTAL
FY96 & Prior 1									1

P-3A CLASSIFICATION: UNCLASSIFIE

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PERSON ICATION: UNCERSON IED  POR STEAM PROPULSION  POR STEAM PROPULSION		UAL MODIFICATI	ON									FEBR	JARY	1997
	MAIN FEED PUN	MP L.O. SYSTEM NES:										то то		
		FY 96 QTY & PRIOF 0	OTY FY 97	QTY FY 98	QTY FY	99 QTY F	Y 00 QTY	FY 01 QT	Y FY 02	QTY F		OMP COMP		
INANCIAL PLAN (IN MILLIONS)														
DT&E													0	0.0
PROCUREMENT		2 0	0	0 0 0	0 0	0	0 0	0 0	0	0	0	0 0	2	0.0
QUANTITY													0	0.0
INSTALLATION KITS													0	0.0
INSTALLATION KITS NONRECURRING													0	0.0
EQUIPMENT		0.4											0	0.4
EQUIPMENT NONRECURRING													0	0.0
ENGINEERING CHANGE ORDERS													0	0.0
DATA													0	0.0
FRAINING EQUIPMENT													0	0.0
SUPPORT EQUIPMENT													0	0.0
OTHER													0	0.0
INTERIM CONTRACTOR SUPPORT													0	0.0
ISTALLATION OF HARDWARE													0	0.00
FY 96 EQUIPMENT & PRIOR		1 0.3	1 0.0	9									2	0.39
FY 97 EQUIPMENT													0	0.00
FY 98 EQUIPMENT													0	0.00
FY 99 EQUIPMENT													0	0.00
FY 00 EQUIPMENT													0	0.00
FY 01 EQUIPMENT													0	0.00
FY 02 EQUIPMENT													0	0.00
FY 03 EQUIPMENT													0	0.00
OTAL INSTALLATION COST		0.3	0.0	90.00	0.0	0 (	0.0	0.0			0.0	0		0.39
OTAL PROCUREMENT COST	0.0	0.4	0.	0.0	0.	0	0.0	0.0			0.0	0.0		0.40
OTAL COST	0.0	0.7	0.0		0.		0.0	0.0			0.0	0.0		0.79
	YEAR: May-90 YEAR: Nov-91	С	DMINISTRA URRENT YE URRENT YE		ME: 9 BUDGET Y BUDGET Y	EAR: N/A		ADTIME: 1 BUDGET ' BUDGET '	YEAR 2:					
NSTALLATION SCHEDULE:														
INPUT =====> FY96	FY97	FY98	FY99	FY00	FY	01 F	Y02	FY03			TC			
1, 2, 3, 4		1, 2, 3, 4	1, 2, 3,					1, 2, 3, 4			2, 3, 4	TOTAL		
FY96 & Prior 1	1	<u>-, -, -, -, -</u>	, _, _,		<u>, -,</u>	<u>.,</u> <u>,.</u> .		<u>, -, -, -</u> .			, <del>- ,</del> -	2		
OUTPUT ====> FY96	FY97	FY98	FY99	FY00	FY	01 E	Y02	FY03			тс			
1, 2, 3, 4			1, 2, 3,					1, 2, 3, 4			2, 3, 4	TOTAL		
FY96 & Prior 1	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3,	1 <u>, 2, 3,</u>	۰ ۱ <u>, ۷,</u>	<u>J, </u> 4 1, 4	<u>, , , </u> +	1 <u>, 2, 3, 4</u>		1,	2, 3, 4	101AL 2		
1130 0.11101	· ·													
														P-3A
			ITEM	3	PAGE	7						FICATION:		

CLASSIFICATION: UNCLASSIFIED

TIME PHASED REQUIREMENT S	A. APPROPRIATION/BUDGET ACTIVITY B.								B. P-1 ITEM NOMENCLATURE							C. DATE										
P-23		BA 1: SHIPS SUPPORT EQUIPMENT DE								DESUPERHEATER (LHA)									FEBRUA	RY 1997	L					
		1	FY 1997 2	3	4	1	FY 1998 2	3	4	1	FY 1999 2	3	4	1	FY 2000 2	3	4	1	FY 2001	3	4	1	FY 2002 2	3	4	LATE
ACTIVE FORCE INVENTORY	(P)																									_
	(P)																									
SCHOOLS/OTHER TRAINING	(P)																									
OTHER AIT	(P)												2						6	2						
TOTAL PHASED REQ	(C)										0	0	2	2	2	2	2	2	8	10						
ASSETS ON HAND	(BP)																									
DELIVERY FY & PRIOR	(P)																									
FY 98	(P)					С				2																
FY 99	(P)									С				2												
FY 00	(P)													С				6								
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
TOTAL ASSETS	(C)									2	2	2	2	4	4	4	4	10	10	10						
QTY OVER (+) OR SHORT (-)											+2	+2	+2	+2	+2	+2	+2	+2	+2	0						
D. REMARKS		1	1	E.	1	RQMT (	QTY)	l	1	l	TOTAL	RQMT	1	INSTALL	.ED		ON HAN	D	FY 99 &	PRIOR UI	NDLVR	1	UNFUN	DED	1	
1.			1.	APPN -		OPN						10		0		0			4			6		i		
				2.	APPN -		OTHER		40				0.1161		1		40	ı		i						
				3.	PROCU	REMENT	LEADTIM	E	12			ADMIN	6 MOS	•	INITIAL	ORDER	12	<u> </u>			REORDI	ER	12	<u> </u>		

P-1 SHOPPING LIST
ITEM NO.- PAGE NO. -DD for 2447, JUN 86

CLASSIFICATION:

**UNCLASSIFIED** 

		DATE FEBRUARY 1997																			
APPROPRIATION	ON/BUDG	ET ACTIVIT	Υ					P-1 ITEM NO	TEBRUARTI	331											
OPN BA 1: SH	IIPS SUPP	ORT EQUIP	MENT					DESUPERHE	ATER (LHA)												
1ST QTR		2ND QTR 3RD QTR				4TH QTR		1ST QTR		2ND QT	R	3RD QTR		4TH QTR							
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY						
FY 1999									FY 2000												
						AIT LHA-4 CL	2														
			FY	2001				FY													
		AITLHA 1 AIT LHA 2 AIT LHA 5	2 2 2 2	AIT LHA 3	2		P-1 SHOPP					CL ASSIFICA									

P-1 SHOPPING LIST CLASSIFICATION
ITEM NO. PAGE NO.
3 9 UNCLASSIFIED

TIME PHASED REQUIR	EMEN	T SC	HEDI	JLE		A. A	PPRC	PRIA	TION	/BUD	GET A	CTIVI	TY	B. P	-1 ITE	M NC	MEN	CLAT	URE			C. D	ATE			]
P-23						BA 1			JPPO	RT E	QUIPN			FOB			D LUI	BE OII				FEBI	RUAR			
		1	FY 19	996 3	4	1	FY 19	997 3	4	1	FY 19	998 3	4	1	FY 1	999	4	1	FY 2	000	4	1	FY 2	001 3	4	LATE
		•	2	3	4	<b>'</b>	_	3	4	'		3	4	'		3	4	'		3	4	'		3	4	
ACTIVE FORCE INVENT	(P) (P)	1																								
SCHOOLS/OTHER TRA	(P)																									
OTHER	(P)																									
TOTAL PHASED REQ	(C)	1																								
ASSETS ON HAND	(BP)	1																								
DELIVERY FY PRIOR	(P)																									
Fì	(P)																									
F)	(P)																									
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F)	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
TOTAL ASSETS	(C)	1																								
QTY OVER (+) OR SHOR	RT (-)	0																								
D. REMARKS				E.	1	RQM	IT (QT	Υ)	1	1	TOTA	AL RG	MT	INST	ALLE	D	ON F	IAND	FY 9	9 & F	RIOR	UND	UNF	UNDI	ED	
				1.	APF	PN -	OPN						1	<u> </u>	0		1			0	)			0	)	
				2.	APF	PN -	ОТНІ	ER																		
				3.	PRC	CUR	EMEN	T LEA	12			ADMI	19 MC	os	INIT	IAL O	12		1		REO	RDER	!	12	!	
				l							D_1 S	HOPE	ING I	IST						1						1

DD for 2447, JUN 86

P-1 SHOPPING LIST ITEM NO.- PAGE NO. -

3 10

CLASSIFICATION: UNCLASSIFIED

**CLASSIFICATION:** 

**UNCLASSIFIED** 

	TIME PH					E NSTALLA	TION D	ATA)					DATE		
	RIATION/										PROJECT O. SYSTE			FEBRUARY	1997
1ST Q	1: SHIPS TR		QTR		QTR	4TH	QTR	1ST QTR		2ND	QTR	3RD	QTR	4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			FY	1996							FY	1997			
AOE 3	1														
			FY	1998							FY	1999			
							P-1 SH	OPPING LIS	ST			CLASSIF	ICATION	<u> </u>	

P-1 SHOPPING LIST D. PAGE NO. 3 11

ITEM NO.

TIME PHASED REQUIREMENT	ME PHASED REQUIREMENT SCHEDULE A. APPR P-23 BA 1: SI							IATION	BUDGE	ET ACT	IVITY			B. P-1	ITEM N	OMENCLA	ATURE					C. DA	TE			
P-23						BA 1:	SHIPS	SUPPO	RT EQU	IIPMEN	т			MAIN	FEED PL	JMP L. O.						FEBR	UARY 1	997		
		1	FY 199 2	6 3	4	1	FY 199 2	7	4	1	FY 199	3	4	1	FY 1999	3	4	1	FY 200	3	4	1	FY 200	01	4	LATE
ACTIVE FORCE INVENTORY	(D)	1																								_
	(P) (P) (P)	٠					'																			
SCHOOLS/OTHER TRAINING	(P)																									
OTHER	(P)																									
TOTAL PHASED REQ	(C)	1	1	1	1		1 2																			
ASSETS ON HAND	(BP)	2																								
DELIVERY FY PRIOR	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
FY	(P)																									
TOTAL ASSETS	(C)	2	2	2	2		2 2																			
QTY OVER (+) OR SHORT (-)		+1	+1	+1	+1	+	1 0																			
D. REMARKS		1	1	E.	1	RQMT	(QTY)	1	1	1	TOTAL	RQM	r	INSTA	LLED		ON HA	AND	FY 99	& PRIC	OR UND	LVR	UNFL	INDED	1	
				1.	APPN	-	OPN						2		0		2	2		(	0			(	)	1
				2.	APPN	-	OTHER	₹																		1
				3.	PROC	UREM	ENT LEA	DTIME	18	3		ADMIN	19 MOS	3	INITIA	LORDER	12	2			REOR	DER	1	12	!	
												OPPIN														J

DD for 2447, JUN 86 P-1 SHOPPING LIST ITEM NO. - PAGE NO. - 3 12 CLASSIFICATION: UNCLASSIFIED

# **CLASSIFICATION:**

# **UNCLASSIFIED**

	TIME PH	ASED RE			HEDULE HEET-INS	TALLATIO	ON DATA	)					DATE		
	RIATION/B	UDGET AC	CTIVITY							LATURE/P ED PUMP L			FEBRUAR	Y 1997	
1ST QTI		2ND QTI	R	3RD QT	R	4TH QTI	R	1ST QTR		2ND QTF	र	3RD QTI	3RD QTR		R
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			FY	1996							FY	1997			
AOE-3	1									AOE-2	1				
			FY	1998							FY	1999			
								DDING LI				CL A CCIE			

P-1 SHOPPING LIST ITEM NO.

PAGE NO.

CLASSIFICATION:

13 3

		BUDGET ITEM JU P-40	JSTIFICATION SI	HEET			DATE:	\D\\ 400 <b>T</b>
APPROPRIATION	BUDGET ACTIVITY				P-1 ITEM NO	MENCLATUR		ARY 1997
OTHER PROCU	JREMENT NAVY BA	A 1: SHIPS SUPP	ORT EQUIPMEN	г	OTHER PRO	PULSION EQ	UIPMENT 81	GG 0180
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$9.3	<b>\$7.8</b>	\$12.1	\$6.2	\$4.6	\$2.4	\$2.4	\$2.3

#### ITEM DESCRIPTION/JUSTIFICATION

#### OTHER PROPULSION EQUIPMENT (81GG)

Other Propulsion Equipment includes: Solar MGT Modification Program (GG025) T1302S gas turbine engines used for driving electric pulse generators on MCM Class ships; Marine Diesel (GG031) engines used for propulsion and electric power generation on surface ships; Submarine Diesel (GG032) engines (Fairbanks Morse 38 Series) used to drive an emergency generator; DD 963/ DDG 993 SSS clutches (GG034); MHC Diesel Engines (CG040) used for propulsion and electrical power generation; Installation of Equipment (GG5IN) to support Fleet Modernization; MACHALTs (GG043) to permit changes to HM&E equipments; LCAC Expanded Maintenance (GG050) to repair the TF40 gas turbine engine; Production Engineering (GG830) to support technical documentation development; and MCM Diesel Engines (GG051) used for propulsion and electrical power generation. Procurement of improved hardware, including modification kits as a result of Product Improvement Programs, is essential to maintaining/increasing engine reliability. Procurement of special tooling and support equipment is needed to facilitate incorporation of modifications and permit both routine and expanded repair of equipments to improve life cycle support. The procurement of technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc. is essential to maintain complete life cycle support for these engines and equipments.

#### SOLAR MARINE GAS TURBINES MCM; (GG024):

The funding provides the resources necessary to fully standardize engine configuration, introduce reliability/maintainability improvements and implement an effective Integrated Logistics Support (ILS) program realizing fleet mission readiness improvements and the operation of the Regional Repair Center maintenance approach.

#### SOLAR MGT MODIFICATION PROGRAM; (GG025):

Procurement of improved hardware for installation in T1302S engines is essential to maintain an acceptable mean-time-between-engine-removals.

Modifications are essential for components whose failure would not necessitate engine removal to increase the overall reliability of the fleet installed engines onboard MCM class ships. Inventory Objective not required. Unit cost varies.

BUDGET ITEM JUSTIFICATION SHEET P-40A		DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT	Other Propulsion Equipment 81GG 0180	

#### SUBMARINE DIESEL; (GG032):

Provides for the procurement of currently available commercial engine hardware for improvement of the reliability, maintainability and durability of the Fairbanks Morse 38 series diesel engine. Of the engines utilized in subsurface ships 24.0 percent are out-of-production out-dated models which create very expensive spare/repair parts support problems. Improvements will be accomplished through procurement of special support equipment and mod kits. Inventory Objective not required. Unit cost varies.

## DD 963/DDG 993 SSS CLUTCH RETROFIT; (GG034):

The DD 963/DDG 993 CL ships are to be retrofitted with the SSS Clutch. Funds are required to procure one shipset of SSS Clutches and associated material for each of the 35 ships in the DD 963 and DDG 993 Classes (K-ALTS). The Inventory Objective is 35. 24 units have been procured in prior years. 2 units are included in budget years. 9 are to be procured in subsequent years. Unit cost \$954,000.

## MACHALTs (GG043):

The machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipments and systems where the changes are contained within the boundaries of the individual equipments or systems and have limited system ramifications. The MACHALT program enables changes to be accomplished in a more expeditious manner and eliminate them from the formal SHIPALT process. MACHALTS are mostly for multi-class alterations. One MACHALT can replace several SHIPALTs in the system.

#### **PRODUCTION ENGINEERING - GG830:**

The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts Lists (APLs) and engineering in support of final design reviews. This work can be accomplished by NAVSSES as the in service Engineering agent, other Naval activities or contractors as appropriate.

#### MCM DIESEL ENGINES (GG051):

The Isotta Fraschini ID 36SS6V-AM anti-magnetic diesel engine is installed on the MCM 1 Class ships (7 per hull) for main propulsion and ships service diesel generators. Funding is required for procurement of 5 additional MCM IF diesel engines to complete the inventory objective of 24 spares. This pool of spare engines is required to support the installed population by providing replacement of failed units in the event of a casualty to maintain Fleet Readiness.

# MHC DIESEL ENGINE (GG040):

The Isotta Fraschini ID 36SS8V-AM anti-magnetic diesel engine is being installed in the MHC 51 Class ships (5 per hull) for main propulsion and ships service diesel generators. It is projected that a total of 18 spare engines will be required to support the 60 installations in the 12 planned ships.

P-1 SHOPPING LIST ITEM NO. PAGE NO. CLASSIFICATION:

	BUDGET ITEM JUSTIFICATION SHEET P-40		DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT BA 1: SHIPS SU	JPPORT EQUIPMENT	Other Propulsion Equipmen	t 81GG 0180

# **INSTALLATION OF EQUIPMENT; (GG5IN)**

Funding is for the installation of equipment including Fleet Modernization Program installations.

<u>GG DSA</u> - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY98 and out.

## MCM/MHC DIESEL ENGINE PROGRAM (GG052):

Isotta Fraschini (I-F) diesel engines installed in MCM/MHC Class Ships have design deficiencies that significantly effect reliability, maintenance and critically undermine the Fleets ability to operate and maintain the ship as designed with reduced manning. A well conceived product improvement program focused on correcting design deficiencies and improving the Mean-Time-Between Failure to a level which provides the Navy with unparalled levels of availability for ships of this type is imperative. MCM and MHC class ships are reduced manned and will be forward deployed in greater numbers in FY 96. Critical to improving reliability and reducing maintenance requirements are implementation of engineering fixes via MACHALTS and associated engineering, ILS, spare parts support correct cooling system design deficiencies, fuel system, lube oil system, sea water corrosion, drive train, main bearings, establish configuration control, and improve spare parts sourcing/availability.

## **MACHINERY CONTROL SYSTEMS (GG054):**

Funding is provided for Machinery Control System (MCS) to:

- a) Bring the MCS under configuration control and upgrade MCM 2 MCM 8 to the MCM 9 configuration
- b) Improve operator training with the installation of an on-board trainer
- c) Decrease system maintenance manhours with fault isolation capability of the on-board trainer
- d) Develop MCS system upgrades to support planned changes to the main propulsion diesels
- e) Re-engineering circuit card assemblies which are no longer procurable because of parts obsolescence.

The proposed MCS system changes are crucial to the continued operation of the system. Change engineering will take approximately one year to develop and verthe required changes. Shipboard installation will follow the validation effort at the rate of five ships per year, completing in FY 2001.

P-1 SHOPPING LIST	CLASSIFICATION:	
ITEM NO. PAGE NO.		

	,	WEAPON SYS	TEM COST AN	IALYSIS EXHIBIT					DATE:	
APPROPRI	ATION/BUDGET ACTIVITY			(P-5) P-1 ITEM NOMENCL	ATURE/SUBHE	AD		F	EBRUARY 19	97
	OTHER PROCUREMENT NAVY BA	. SHIDS SHD	DODT FOLLIDM				SION FOLLIDM	ENT (81GG) 0180		
	OTTER I ROCCINEMENT NAVI BA	1. 31111 3 301 1	I OKT EQUITIN	T	OTAL COST IN	THOUSANDS OF	DOLLARS	LIVI (0100) 0100		
COST	ELEMENT OF COST	IDENT		FY 1996		FY 1997		FY 1998		FY 1999
CODE		CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	N85 EXPEDITIONARY WARFARE									
GG024 GG051	SOLAR MGT MOD PROGRAM MCM DIESEL ENGINE	A A			5	1,580		1,895		1,078
GG052	MCM/MHC DIESEL ENGINE PROGRAM	Α		5,881		5,364		4,571		590
GG054 GG830 GG044	MACHINERY CONTROL SYSTEM PRODUCTION ENGINEERING SSTG THROTTLE VALVES	A		350				3,097		2,948 454
	SUBTOTAL N85			6,231		6,944		9,563		5,070
GGO25 GG034 GG040 GG830	N86 SURFACE WARFARE SOLAR MGT MOD PROGRAM SSS CLUTCH MHC DIESEL ENGINE PRODUCTION ENGINEERING	A A A	1	954	2	126 687	2 1	2,099 362	1	397 227
	SUBTOTAL N86  N87 SUBMARINE			954		813		2,461		624
GG032 GG043 GG830	SUBMARINE DIESEL MACHALTS PRODUCTION ENGINEERING	A A A		313 321 245						
	SUBTOTAL N87			879		0		0		O
	EQUIPMENT TOTAL			8,064		7,757		12,024		5,694
GG5IN	INSTALLATION OF EQPT			1,282		0		45		303
GGDSA	DESIGN SERVICES ALLOCATION SUBTOTAL INSTALLATION			1282		0		8 53		250 553
	TOTAL			9,346		7,757		12,077		6,247
		P-1 SHOPPING						pon System Cost An		

P-1 SHOPPING LIST ITEM NO. 4

PAGE NO.

CLASSIFICATION: UNCLASSIFIED BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) DATE **FEBRUARY 1997** APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT Other Propulsion Equipment (81GG) 0180 CONTRACT DATE OF SPECS SPEC IF YES CONTRACTOR CONTRACTED AWARD QUANTITY UNIT AVAILABLE COST LINE ITEM/ METHOD FIRST REV WHEN FISCAL YEAR AND LOCATION DELIVERY COST REQ'D AVAILABLE CODE & TYPE BY DATE NOW SOLAR MGT MOD PROGRAM GG025 FY 1997 UNKNOWN **CPFF** NAVSEA Feb-97 Feb-98 126,000 YES NO SOLAR MARINE GAS TURBINES (MCM) GG024 FY 1998 SOLAR **CPFF** NAVSEA Jan-98 309.000 YES NO Jan-99 SAN DIEGO, CA FY 1998 RELIANCE **CPFF** NAVSEA Jan-97 Jan-98 97,000 YES NO CLEVELAND, OH FY 1998 **NSWC PHILA, PA** WR NAVSEA Dec-97 Sep-98 387,000 YES NO FY 1998 **NSWC PHILA, PA** WR NAVSEA Dec-97 Sep-98 618,000 YES NO FY 1998 **NSWC PHILA, PA** WR NAVSEA Dec-97 Sep-98 331,000 YES NO FY 1998 **NSWC PHILA, PA** WR NAVSEA Dec-97 Sep-98 153,000 YES NO FY 1999 SOLAR, MGMT CPFF NAVSEA 384,000 YES NO Jan-99 Jan-00 SAN DIEGO, CA FY 1999 **NSWC PHILA, PA** WR NAVSEA 601,000 YES NO Dec-98 Sep-99 RELIANCE NAVSEA YES FY 1999 CPFF Jan-99 Jan-00 93,000 NO CELVELAND, OH SUB DIESEL SUP PROGRAM GG032 FY 1996 NSWC, PHILA, PA PO NAVSEA Feb-96 Feb-97 313,000 YES NO DD963/DDG SSS CLUTCH RETROFIT GG034 FY 1996 Westinghouse SS/FP NAVSEA Feb-96 Aug-97 954,000 YES NO FY 1998 Westinghouse SS/FP NAVSEA Feb-98 Aug-99 2 1,049,500 MHC DIESEL GG040 FY 1997 ISOTTA SS/FP NAVSEA Dec-96 Dec-97 2 343,500 YES NO FRASCHINI ISOTTA NAVSEA 362,000 FY 1998 SS/FP YES NO Dec-97 Dec-98 1 FRASCHINI FY 1999 SS/FP NAVSEA 397,000 YES ISOTTA Jan-99 Jan-00 NO FRASCHINI **MACHALTS** NSWC, PHILA, PA GG043 FY 1996 WR NAVSEA Mar-96 Sep-96 321,000 YES NO GG044 SSTG THROTTLE VALVES NAVSEA FY 1999 SPCC MECH RCP Apr-99 Apr-00 454,000 YES NO

P-1 SHOPPING LIST ITEM NO.

D. REMARKS

PAGE NO.

Exhibit P-5A Procurement History and Planning

CLASSIFICATION:

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APPROPR	ATION/BUDGET ACTIVITY				P-1 ITEM NOME	NCLATURE			SUBHEAD	•	
	OTHER PROGUESTATION DA	4. OLUBO OLUBBODE FOLUBATA	<del>-</del>		Other December	Familian			81GG	0180	
	OTHER PROCUREMENT NAVY BA	1: SHIPS SUPPORT EQUIPMEN	CONTRACT	1	Other Propulsion	Equipment DATE OF	1	T	SPECS	SPEC	IF YES
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	METHOD & TYPE	CONTRACTED BY	AWARD DATE	FIRST DELIVERY	QUANTITY	UNIT COST	AVAILABLE NOW	REV REQ'D	WHEN AVAILABL
GG051	MCM DIESEL ENGINE FY 1997	FINCANTIERI TRIESTE, ITALY	SS/FP	NAVSEA	Feb-97	Feb-98	5	316,000	YES	NO	
MA	I CHINERY CONTROL SYST	TEMS									
GG054	FY 1998	LOCKHEED MARTIN ORLANDO, FL	CPFF	NAVSEA	Feb-98	Feb-99		3,097,000	YES	NO	
	FY 1999	OCKHEED MARTIN ORLANDO, FL	CPFF	NAVSEA	Feb-99	Feb-00		2,948,000	YES	NO	
	MCM/MHC DIESEL ENGIN PROGRAM	IE									
GG052	FY 1996	ADV REL & MAINT SCVS	LOE	NAVSEA	Apr-96	Sep-96		200,000	YES	NO	
	FY 1996	JSI ARLINGTON, VA	LOE	NAVSEA	Apr-96	Sep-96		350,000	YES	NO	
	FY 1996	JJ McMULLEN	LOE	NAVSEA	Apr-96	Sep-96		700,000	YES	NO	
	FY 1996	NSWC PHILA, PA	PX	NAVSEA	Mar-96	Mar-97		3,660,000	YES	NO	
	FY 1996	USI ARLINGTON, V	LOE	NAVSEA	Oct-95	Oct-96		121,000	YES	NO	
	FY 1996	NAVSEALOGCTR,	WR	NAVSEA	Mar-96	Sep-96		300,000	YES	NO	
	FY 1996	NSWC PHILA, PA	WR	NAVSEA	Mar-96	Sep-96		500,000	YES	NO	
	FY 1996	JJ MCMULLEN	LOE	NAVSEA	Sep-96	Sep-96		50,000	YES	NO	
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Nov-96	May-97		4,114,000	YES	NO	
	FY 1997	NSWC, PHILA, PA	WR	NAVSEA	Jan-97	Jul-97		1,250,000	YES	NO	
	FY 1998	NSWC PHILA, PA	WR	NAVSEA	Feb-98	Sep-98		4,571,000	YES	NO	
	FY 1999	NSWC PHILA, PA	WR	NAVSEA	Feb-99	Sep-99		590,000	YES	NO	

P-1 SHOPPING LIST

ITEM NO. PAGE NO. 4 6

Exhibit P-5A Procurement History and Planning CLASSIFICATION:

INDIVIDUAL MODIFICATION **FEBRUARY 1997** MODIFICATION TITLE: OTHER PROPULSION MODELS OF SYSTEM AFFECTED: SSS CLUTCH DESCRIPTION/JUSTIFICATION: The DD 963/DDG 993 CL ships are to be retrofitted with SSS Clutch. Funds are required to procure one shipset of SSS Clutches and associated material for each of the 35 ships in DD 963 and DDG 993 Classes (K-ALTS). DEVELOPMENT STATUS/MAJOR DEVÉLOPMENT MILESTONES: COMP COMPTOTAL TOTAL FY 96 QTY 'RIOR FY 97 QTY FY 98 QTY FY 99 QTY FY 00 QTY FY 01 QTYFY 02 QTY FY 03 QTY COST QTY QTY COST FINANCIAL PLAN (IN MILLIONS) RDT&E 0.0 PROCUREMENT 0 0.0 QUANTITY 14 0.0 INSTALLATION KITS 0.0 INSTALLATION KITS NONRECURRING 0.0 **EQUIPMENT ADS** 3.4 2.1 11.0 16.5 **EQUIPMENT NONRECURRING** 0.0 **ENGINEERING CHANGE ORDERS** 0.0 DATA 0 0.0 TRAINING EQUIPMENT 0 0.0 SUPPORT EQUIPMENT 0.0 OTHER 0 0.0 INTERIM CONTRACTOR SUPPORT 0.0 INSTALLATION OF HARDWARE 0 0.0 **FY96 & PRIOR** 1.3 3 1.3 **FY97 EQUIPMENT** 0 0.0 **FY98 EQUIPMENT** AP 0.5 2 0.6 2 1.1 **FY99 EQUIPMENT** 0 0.0 **FY 00 EQUIPMENT** 0 0.0 **FY 01 EQUIPMENT** 0 0.0 **FY 02 EQUIPMENT** 0.0 **FY 03 EQUIPMENT** 0 0.0 TO COMPLETE 3.6 3.6 TOTAL INSTALLATION COST AP 0.0 0.0 14 6.0 1.3 0.5 0.6 0.0 9 3.6 TOTAL PROCUREMENT COST 0.0 0.0 0.0 0.0 11.0 16.5 3.4 2.1 0.0 TOTAL COST 4.7 0.00 2.6 0.60 0.0 0.0 0.0 14.6 22.5 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME 18 MONTHS CONTRACT DATE: PRIOR YEAR: ##### **CURRENT YEAR: BUDGET YEA Feb-98 BUDGET YEAR 2:** PRODUCTION DELIVER DATE: PRIOR YEAR: ##### **CURRENT YEAR: BUDGET YEAAug-99 BUDGET YEAR 2:** INSTALLATION SCHEDULE: FY98 FY00 FY03 INPUT =====> FY96 FY97 FY99 FY01 FY02 TC 1, 2, 3, 4 TOTAL 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 FY 96 & PRIOR 3 FY 97 0 FY 98 1 1 FY 99 0 FY 00 0 FY 01 0 FY 02 0 FY 03 0 14 OUTPUT ====> FY01 FY02 FY96 FY97 FY98 FY99 FY00 FY03 TC 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL FY 96 & PRIOR 3 FY 97 0 FY 98 11 2 FY 99 0 FY 00 FY 01 0 FY 02 FY 03 0 TC CLASSIFICATION: UNCLASSIFIED

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TIME PHASED REQUIREMENT SCHI	DULE						PROPRIA OTHER	PROCUR	EMENT	[ NAV	,			D. P-111		NCLATURE						C. DATE		DV 400T		
P-23			FY 199	6		BA 1:	SHIPS S FY 1997	UPPORT	EQUIP	MENT	FY 1998				FY 1999	SS CLUTCH	1		FY 2000	)		1	FEBRUAR FY 2001	KY 1997		LAT
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Ī
CTIVE FORCE INVENTORY	(P)				1				1							1										
	(P)																									
CHOOLS/OTHER TRAINING	(P)																									
THER AIT	(P)				1												1									
OTAL PHASED REQ	(C)				2	2	2	2	3	3	3	3	3	3	3	4	5									
SSETS ON HAND	(BP)	2																								
ELIVERY FY 96 & PRIOR	(P)		С						1																	
FY 97	(P)																									
FY 98	(P)										С						2									
FY 99	(P)																									
FY 00	(P)																									
FY 01	(P)																									
FY 02	(P)																									
FY 03	(P)																									
OTAL ASSETS	(C)	2	2	2	2	2	2	2	3	3	3	3	3	3	5	3	5									
TY OVER (+) OR SHORT (-)		2	2	2	0	0	0	0	0	0	0	0	0	0	0	-1	0									
. REMARKS				E.	RQMT (Q	ΓY)					TOTAL RG	мт 35		INSTALLED	)	ON HAND	2		FY 97 & P	PRIOR UND	DLVR	1	UNFUNDE	<sup>ED</sup> 9		
				1.	APPN -		OPN																			†
				2.	APPN -		OTHER																			1
				3.	PROCUR	EMENT LE	EADTIME			12		ADMIN	6 MON	rue	INITIAL OR						REORDER		4			

DD for 2447, JUN 86

P-1 SHOPPING LIST ITEM NO.- PAGE NO. 4 8 CLASSIFICATION UNCLASSIFIED

#### CLASSIFICATION:

# **UNCLASSIFIED**

	ТІ			TS SCHEDULE		DATA)							DATE		
			(00: 1 ===	P-23A		,							FEBR	UARY	1997
	TION/BUDGET							P-1 ITEM NO	OMENCLATUR SSS CLUTCH	E/PROJECT L	INIT		1		
1ST QTI		2ND QT		3RD QT		4TH QTI	₹	1ST QTR		2ND QT	R	3RD QT	R	4TH QTF	₹
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
		l	FY	1996							FY	1997			
						DD 967	1							DD 993	1
						DD 963 AIT	1								
			FY	1999							FY				
				DD 978	1	DD 971 AIT	1								
								PPING I I					FICATION		

P-1 SHOPPING LIST ITEM NO.

PAGE NO.

CLASSIFICATION:

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UNCLASSIFIED CLASSIFICATION:

	REQUIREMENTS S	STUDY - NOT-INS	TALLED NONCONS	UMABLES P-23B			DATE	
							FEBRUARY	1997
APPROPRIATION/BUDGET ACTIVIT	Y				P-1 ITEM NOMENCLA	TURE		
	OTHER PROCUREM	ENT NAVY BA 1: S	HIPS SUPPORT EQUIF	PMENT	Oth	er Propulsion Equipm	ent 81GG 0180	
ITEM/PROJECT UNIT	TOTAL IO / REQUIREMENT	QUANTITY ON HAND & NOT IN USE	QUANTITY IN USE		QUANTITY DUE IN WITH FY 96 * PRIOR FUNDS	PLANNED BUDGET YEARS 97/98/99 PROCUREMENT	BALANCE	PHASING RATIONALE
GG040, MHC Diesel Engine	18	0	0		6	2/1/1	8	Priority Constraint
GG051, MCM Diesel Engine	29	0	18		6	5/0/0	0	Priority Constraint
			MEMO ENTRIES					
D. REMARKS								
ITEM GG040: Inventory Obje	ective of 24 req 0	uired for sup	port of the MCM					
	P ITEM NO.	-1 SHOPPING LIS PAGE NO.	ST		CLASSIFICATION:			

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UNCLASSIF'	IED						
		M JUSTIFICAT	ION SHEET			DATE:	
	P-40						
							FEBRUARY 1997
	RT EQUIPMENT					260)	
1996	1997	1998	1999	2000	2001	2002	2003
\$5.0	\$0.0	\$1.8	\$9.2	\$2.3	\$2.6	0.0	0.0
	TY 1: SHIPS SUPPOI 1996	P-40  TY 1: SHIPS SUPPORT EQUIPMENT  1996  1997	BUDGET ITEM JUSTIFICAT P-40  TY 1: SHIPS SUPPORT EQUIPMENT 1996 1997 1998	BUDGET ITEM JUSTIFICATION SHEET P-40  TY 1: SHIPS SUPPORT EQUIPMENT   1996	BUDGET ITEM JUSTIFICATION SHEET P-40  TY 1: SHIPS SUPPORT EQUIPMENT OTHER GENERA  1996 1997 1998 1999 2000	BUDGET ITEM JUSTIFICATION SHEET P-40  TY 1: SHIPS SUPPORT EQUIPMENT OTHER GENERATORS (81G6) (02 1996 1997 1998 1999 2000 2001	BUDGET ITEM JUSTIFICATION SHEET P-40  TY 1: SHIPS SUPPORT EQUIPMENT   1996

SHIP ALTERATIONS: To replace obsolete, unsupportable and in some cases, underpowered equipment now in use. This program is applicable to all ship types. Installation agents and types of availabilities required vary with ship and equipment type. This is a continuing program composed of both maintenance items and newly developed improvements.

G65IN - EQUIPMENT INSTALLATION - Funding for the installation of equipment including fleet modernization program installations. Funding for the installation of Joint Fleet Priority #20C Solid Frequency Converter.

GG DSA - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 & out.

G6023 - MACHALTs - The Machinery Alteration Program (MACHALT) is a program that permits changes to Other Generator equipment and systems where the changes are contained within the boundaries of the individual equipment's or systems and have limited system ramifications. The MACHALT program enables change to be accomplished in a more expeditious manner and eliminates candidates from the formal SHIPALT process. MACHALTs are most effective for multi-class alterations. One MACHALT can replace several SHIPALTs in the system No I/O required.

G6024 - LHA MID LIFE - This program supports material procurement and installation of engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program (Joint Fleet Priority #20C assigned by OPNAV, NAVSEA, Type Commanders LHA Midlife Management Team. Procure and Install Solid State Frequency changers). This program is a joint OPNAV, CINCLANTFLT, and SURFPAC inactive to resolve maintenance deficiencies increase readiness, and reduce future maintenance costs enabling the ships to reach their service life.

G6035 COMMAND & CONTROL UPGRADE - The Navy has four flagships or command ships: one for each of the three numbered fleets and one for the Middle East Forces in the Persian Gulf.

These ships serve as headquarters for the numbered fleet commanders and provide extensive communications, support and berthing for embarked staff. Their mission is to provide command and control centers.

Commander, Second Fleet USS MOUNT WHITNEY (LCC 20)
Commander, Third Fleet USS CORONADO (AGF 11)
Commander, Sixth Fleet USS LASALLE (AGF 3)
Commander, Seventh Fleet USS BLUE RIDGE (LCC 19)

G6DSA DESIGN SERVICES ALLOCATION - Design Agent transferred from O&M,N and out.

		WEAPON	SYSTEM	COST ANALYSI	S ЕХНІВІ	т			DATE: FEBRUAR	Y 1997
APPROPRIAT	FION/BUDGET ACTIVITY			P-1 ITEM NOMENCLA	TURE/SUB	HEAD			ILDIOAK	1 1337
OTHER PR	OCUREMENT NAVY BA 1: SHIPS SUPPORT E	QUIPMENT			81G6 OTHE	ER GENERATORS (026 COST IN THOUS	O ANDS O	F DOLLARS		
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
G6024	LHA Mid Life Upgrade (Solid State Frequency Changer	)							15	6,177
	SUBTOTAL N85									6,177
G6035	Command & Control Upgrade						2	1,810		
	SUBTOTAL N86 TOTAL EQUIPMENT							1,810 1,810		6,177 6,177
G6DSA	DESIGN SERVICES ALLOCATIO	N								600
G65IN	Installation of Equipment	4,996								2,456
	TOTAL INSTALLATION	4,996								3,056
	GRAND TOTAL							1,810		9,233
		LIGDDING					1.5.5.14			

P-1 SHOPPING LIST ITEM NO. 'AGE NO. Exhibit P-5 Weapon System Cost Analysis CLASSIFICATION:

			BUDGET PROCUR	REMENT HISTORY A		•	1)			DATE FEBRUARY 19	97
PROPRIATION	I/BUDGET ACTIVITY				P-1 ITEM NON	MENCLATURE			SUBHEAD	81G6/0260	
	OTHER PROCUREMENT NAV	Y BA 1: SHIPS SUPPORT	FOUIPMENT		OTHER GENE	RATORS				81G0/0260	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABI
G024	SOLID STATE FREQUENCY CHANGERS FY 1999	UNKNOWN	C/FP/OPT	NAVSEA	Jan-99	Jan-00	15	411,800	YES		
6035	COMMAND AND CONTROL UPGRADE										
	FY 1998	NSY NORFOLK, VA	RC	NAVSEA	Jun-98	Jun-99	2	905,000	YES		

REMARKS

P-1 SHOPPING LIST ITEM NO. 5

PAGE NO.

Exhibit P-5A Procurement History and Planning CLASSIFICATION:

CLASSIFICATION: UNCLASSIFIED P3A MODIFICATION TITLE: OTHER GENERATORS	INDIVIDUAL MO	DIFICATION	N															FEBRUA	ARY 1997	7
MODIFICATION TITLE: UTHER GENERATORS MODELS OF SYSTEM AFFECTED: ARC FAULT DETECTORS DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTON																	то	то		
	QTY	FY 96 PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP QTY	COMP	TOTAL QTY	
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.0
PROCUREMENT QUANTITY	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 0	0.0
INSTALLATION KITS INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT		0.8																	0	0.8
EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS																			0	0.0 0.0
DATA TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT																			0	0.0
OTHER INTERIM CONTRACTOR SUPPORT																			0	0.0 0.0
NSTALLATION OF HARDWARE																				
FY96 EQUIPMENT FY97 EQUIPMENT FY98 EQUIPMENT	2	1.1																	2 0 0	1.1 0.0 0.0
FY99 EQUIPMENT																			0	0.0
FY 00 EQUIPMENT FY01 EQUIPMENT																			0 0 0	0.0 0.0 0.0
TO COMPLETE																			0	0.0
TOTAL INSTALLATION COST	2	1.1	0	0.0		0		0		0		0				0		0	2	1.1
TOTAL PROCUREMENT COST TOTAL COST	0.0 0.0	0.8 1.9		0.0 0.0		0.0 0.0		0.0 0.0		0.0 0.0		0.0 0.0				0.0 0.0		0.0 0.0		0.8 1.9
METHOD OF IMPLEMENTATION: AIT/SS				STRATIVE					P	RODUCT	ION LEA									
CONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR:	Mar-94 Mar-95			NT YEAR: NT YEAR:			BUDGE BUDGE	T YEAR: T YEAR:				BUDGET								
NSTALLATION SCHEDULE: INPUT =====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		тс				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		TOTAL	_	
FY 96 AND PRIOR	1 1																	2		
OUTPUT ====>	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		FY03 1, 2, 3, 4		TC 1, 2, 3, 4	_	TOTAL		
FY 96 AND PRIOR	1 1	,-,-,-								, -, -, .		, -, -, .			•			2	•	
																		_		
																				P-3A
				ITEM 5			PAGE 4									CLASS	FICATION	N: UNCL	ASSIFIE	D

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION FEBRUARY 1997 MODIFICATION TITLE: OTHER GENERATORS MODELS OF SYSTEM AFFECTED: 60/400 HZ STATIC FREQUENCY CONVERTERS
DESCRIPTION/JUSTIFICATION: The water cooled 400 HZ STATIC Frequency converters has completed a critical design review which provided changes to improve reliability of this equipment. It was determined that the principal remaining concern was the potential deterioration of the imbedded water cooling system. The most cost effective fix for this problem is to convert the unit to air cooling. This requirement directed by the senior Navy DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: то то FY 96 & QTY FY 97 QTY TOTAL QTY TOTAL COST COMP COMP FY 98 QTY FY 99 QTY FY 00 QTY FY 01 QTY FY 02 QTY FY 03 QTY COST FINANCIAL PLAN (IN MILLIONS) <u>RDT&E</u> <u>PROCUREMENT</u> QUANTITY 0.0 2 0 0.0 INSTALLATION KITS 0.0 INSTALLATION KITS NONRECURRING 0.0 1.4 0.0 0.0 1.4 EQUIPMENT EQUIPMENT NONRECURRING **ENGINEERING CHANGE ORDERS** DATA 0.0 TRAINING EQUIPMENT 0.0 SUPPORT EQUIPMENT OTHER 0.0 INTERIM CONTRACTOR SUPPORT INSTALLATION OF HARDWARE FY96 EQUIPMENT & PRIOR FY97 EQUIPMENT 2 09 0.9 FY98 EQUIPMENT FY99 EQUIPMENT 0.0 0.0 0.0 0.0 0.0 FY 00 EQUIPMENT FY01 EQUIPMENT FY 02 EQUIPMENT FY 03 EQUIPMENT 0.0 TOTAL INSTALLATION COST 0.9 0.0 0.0 0.9 TOTAL PROCUREMENT COST 0.0 0.0 0.0 0.0 0.0 0.0 2 1.4 2.3 TOTAL COST 0.9 0.0 0.0 0.0 0.0 0.0 METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 21 PRODUCTION LEADTIME: 12 CONTRACT DATE: PRODUCTION DELIVER DATE: PRIOR YEAR: Jan-94 PRIOR YEAR: Jan 95 CURRENT YEAR: CURRENT YEAR: BUDGET YEAR: BUDGET YEAR 2: 0 BUDGET YEAR 2: 0 **BUDGET YEAR:** INSTALLATION SCHEDULE: FY96 1, 2, 3, 4 0 0 1 1 FY97 FY98 FY99 1, 2, 3, 4 FY00 1, 2, 3, 4 FY01 FY02 FY03 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL 1, 2, 3, 4 \*FY 96 & PRIOR FY99 1, 2, 3, 4 OUTPUT ====> FY96 FY97 FY98 FY00 FY01 FY02 FY03 1, 2, 3, 4 1, 2, 3, 4 TOTAL 2 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 \*FY 96 & PRIOR ITEM 5 PAGE CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION FEBRUARY 1997 MODIFICATION TITLE: OTHER GENERATORS MODELS OF SYSTEM AFFECTED: LHA MID LIFE DESCRIPTION/JUSTIFICATION: SOLID FREQUENCY CHANGERS PRIORITY #20C DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: то то COMP COMP TOTAL TOTAL QTY & PRIOR QTY FY 97 QTY FY 98 QTY FY 99 QTY FY 00 QTY FY 01 QTY FY 02 QTY FY 03 QTY COST QTY COST FINANCIAL PLAN (IN MILLIONS) RDT&E 0 0.0 PROCUREMENT 15 15 0 0.0 QUANTITY 0.0 INSTALLATION KITS 0 0.0 INSTALLATION KITS NONRECURRING 6.2 0 6.2 **EQUIPMENT** 0 0.0 **EQUIPMENT NONRECURRING** 0 0.0 **ENGINEERING CHANGE ORDERS** 0.0 0 DATA 0 0.0 TRAINING EQUIPMENT 0.0 0 SUPPORT EQUIPMENT 0.0 OTHER 0 0.0 INTERIM CONTRACTOR SUPPORT 0.0 INSTALLATION OF HARDWARE 0 0.0 **FY96 EQUIPMENT & PRIOR** 0 0.0 FY97 EQUIPMENT 0 0.0 **FY98 EQUIPMENT** 0.0 0 **FY99 EQUIPMENT** 0.0 FY00 EQUIPMENT 3 2.2 12 2.5 15 4.7 **FY 01 EQUIPMENT** 0 0.0 **FY02 EQUIPMENT** 0 0.0 FY03 EQUIPMENT 0.0 TO COMPLETE 0.0 TOTAL INSTALLATION COST 0.0 0.0 0.0 0.0 2.2 12 2.5 0.0 0.0 4.7 TOTAL PROCUREMENT COST 0.0 6.2 0.0 0.0 0.0 0.0 6.2 0.0 0.0 0.0 0.0 0 TOTAL COST 0.0 0.0 0.0 0.0 6.2 2.2 2.5 0.0 0.0 0.0 15 10.9 METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 9 12 CONTRACT DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR: BUDGET YEAR 2: Jan-99 PRODUCTION DELIVER DATE: PRIOR YEAR: **CURRENT YEAR: BUDGET YEAR:** BUDGET YEAR 2: Jan-00 INSTALLATION SCHEDULE: INPUT =====> FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL FY 96 & PRIOR FY 97 0 FY 98 0 FY 99 3 93 15 FY 00 0 FY 01 0 FY 02 0 FY 03 0 TC 0 15 OUTPUT ====> FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 FY 96 & PRIOR 0 FY 97 0 FY 98 0 FY 99 3 3603 15 FY 00 0 FY 01 0 FY 02 0 FY 03 0 TC 15 P-3A

		INDIVIDU	AL MOE	DIFICATIO	N															FEBRUA	ARY 199	7
MODIFICATION TITLE: OTHER GENERATORS MODELS OF SYSTEM AFFECTED: SEOC MOD DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOPMEN		IFS:																	то	то		
			QTY	FY 96 PRIOR	OTV	FY 97	OTV	EV 00	OTV	FY 99	OTV	EV 00	OTV	FY 01	QTY	FY 02	OTV	FY 03	COMP		TOTAL QTY	
FINANCIAL PLAN (IN MILLIONS)			QII	FRIOR	QII	F1 91	QII	F1 90	QII	FIJJ	QII	F1 00	QII	FTUI	QII	FT UZ	QII	F1 03	QII	COST	QII	COS
RDT&E																					0	0.0
PROCUREMENT			2	0																	2	0.0
QUANTITY																					0	0.0
INSTALLATION KITS																					Ö	0.0
INSTALLATION KITS NONRECURRING																					Ô	0.0
EQUIPMENT				1.0																	Ô	1.0
				1.0																	0	
EQUIPMENT NONRECURRING																					•	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
FY97 EQUIPMENT FY98 EQUIPMENT																					0	0.0
FY99 EQUIPMENT FY 00 EQUIPMENT FY01 EQUIPMENT TO COMPLETE OTAL INSTALLATION COST OTAL PROCUREMENT COST			2	2.9	0	0.0		0.0		0.0		0.0		0				0.0		0	0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY 00 EQUIPMENT FY01 EQUIPMENT TO COMPLETE OTAL INSTALLATION COST OTAL PROCUREMENT COST					0																0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL COST			0.0	1.0 3.9		0.0 0.0	E I EAD	0.0	0	0.0		0.0 0.0	ION I EA	0.0	2			0.0		0.0	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION: AIT	D VFAD.		0.0	1.0 3.9	ADMINIS	0.0 0.0 STRATIVE		0.0 0.0	9	0.0 0.0	P	0.0 0.0	ION LEA	0.0 0.0 ADTIME: 1				0.0		0.0	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO		Mar-94	0.0	1.0 3.9	ADMINIS CURREI	0.0 0.0 STRATIVE		0.0 0.0	BUDGET	0.0 0.0 YEAR:	P	0.0 0.0	ION LEA	0.0 0.0 DTIME: 1 BUDGET	YEAR 2			0.0		0.0	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY 00 EQUIPMENT FY 01 EQUIPMENT  TO COMPLETE  FOTAL INSTALLATION COST  FOTAL PROCUREMENT COST FOTAL COST  FOTAL COST  WETHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO		Mar-94 Mar-95	0.0	1.0 3.9	ADMINIS CURREI	0.0 0.0 STRATIVE		0.0 0.0		0.0 0.0 YEAR:	P	0.0 0.0	ION LEA	0.0 0.0 ADTIME: 1	YEAR 2			0.0		0.0	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST TOTAL COST  WETHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO NSTALLATION SCHEDULE:		Mar-95	0.0	1.0 3.9	ADMINIS CURREI	0.0 0.0 STRATIVE NT YEAR:		0.0 0.0	BUDGET	0.0 0.0 YEAR:	P	0.0 0.0 PRODUCT	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET	YEAR 2	2:		0.0		0.0	0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO	R YEAR:	Mar-95 FY96	0.0	1.0 3.9 FY97	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR:		0.0 0.0 TIME	BUDGET BUDGET	0.0 0.0 YEAR: YEAR:	P	0.0 0.0 PRODUCTI	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET	YEAR 2	2: FY03		0.0 0.0		0.0	0 0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST OTAL COST  IETHOD OF IMPLEMENTATION: AIT IONTRACT DATE: PRIO RODUCTION DELIVER DATE: PRIO	R YEAR:	Mar-95	0.0	1.0 3.9	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR:		0.0 0.0	BUDGET BUDGET	0.0 0.0 YEAR:	P	0.0 0.0 PRODUCT	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET	YEAR 2	2:		0.0		0.0	0 0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY 00 EQUIPMENT FY 01 EQUIPMENT  TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO  INSTALLATION SCHEDULE:	R YEAR:	Mar-95 FY96	0.0	1.0 3.9 FY97	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR:		0.0 0.0 TIME	BUDGET BUDGET	0.0 0.0 YEAR: YEAR:	P	0.0 0.0 PRODUCTI	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET	YEAR 2	2: FY03		0.0 0.0		0.0	0 0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY 00 EQUIPMENT FY 01 EQUIPMENT  TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO  INSTALLATION SCHEDULE:	R YEAR:	Mar-95 FY96	0.0	1.0 3.9 FY97	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR:		0.0 0.0 TIME	BUDGET BUDGET	0.0 0.0 YEAR: YEAR:	P	0.0 0.0 PRODUCTI	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET	YEAR 2	2: FY03		0.0 0.0		0.0	0 0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO INSTALLATION SCHEDULE: INPUT ======>  FY 96 AND PRIOR	R YEAR:	FY96 1, 2, 3, 4	0.0	1.0 3.9 FY97 1, 2, 3, 4	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR: FY98 1, 2, 3, 4		0.0 0.0 TIME FY99 1, 2, 3, 4	BUDGET BUDGET	0.0 0.0 YEAR: YEAR: FY00 1, 2, 3, 4	P	0.0 0.0 PRODUCTI FY01 1, 2, 3, 4	ION LEA	0.0 0.0 DTIME: 1 BUDGET BUDGET FY02 1, 2, 3, 4	YEAR 2	FY03 1, 2, 3, 4		0.0 0.0 TC 1, 2, 3, 4		0.0 0.0	0 0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO NSTALLATION SCHEDULE: INPUT =======>	R YEAR:	FY96 1, 2, 3, 4 2 FY96	0.0	1.0 3.9 FY97 1, 2, 3, 4	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR: FY98 1, 2, 3, 4		0.0 0.0 TIME FY99 1, 2, 3, 4	BUDGET BUDGET	0.0 0.0 YEAR: YEAR: FY00 1, 2, 3, 4	Р	0.0 0.0 PRODUCTI FY01 1, 2, 3, 4		0.0 0.0 DTIME: 1 BUDGET BUDGET FY02 1, 2, 3, 4	YEAR 2	FY03 1, 2, 3, 4 FY03		0.0 0.0 TC 1, 2, 3, 4		0.0 0.0 TOTAL	0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY01 EQUIPMENT FY01 EQUIPMENT TO COMPLETE  OTAL INSTALLATION COST  OTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO INSTALLATION SCHEDULE: INPUT =======>  FY 96 AND PRIOR	R YEAR:	FY96 1, 2, 3, 4	0.0	1.0 3.9 FY97 1, 2, 3, 4	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR: FY98 1, 2, 3, 4		0.0 0.0 TIME FY99 1, 2, 3, 4	BUDGET BUDGET	0.0 0.0 YEAR: YEAR: FY00 1, 2, 3, 4	P	0.0 0.0 PRODUCTI FY01 1, 2, 3, 4		0.0 0.0 DTIME: 1 BUDGET BUDGET FY02 1, 2, 3, 4	YEAR 2	FY03 1, 2, 3, 4		0.0 0.0 TC 1, 2, 3, 4		0.0 0.0	0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 2.9
FY99 EQUIPMENT FY 00 EQUIPMENT FY 01 EQUIPMENT TO COMPLETE  FOTAL INSTALLATION COST  FOTAL PROCUREMENT COST  FOTAL COST  METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIO PRODUCTION DELIVER DATE: PRIO  NSTALLATION SCHEDULE: INPUT ======>  FY 96 AND PRIOR	R YEAR:	FY96 1, 2, 3, 4 2 FY96	0.0	1.0 3.9 FY97 1, 2, 3, 4	ADMINIS CURREI CURREI	0.0 0.0 STRATIVE NT YEAR: NT YEAR: FY98 1, 2, 3, 4		0.0 0.0 TIME FY99 1, 2, 3, 4	BUDGET BUDGET	0.0 0.0 YEAR: YEAR: FY00 1, 2, 3, 4	P	0.0 0.0 PRODUCTI FY01 1, 2, 3, 4		0.0 0.0 DTIME: 1 BUDGET BUDGET FY02 1, 2, 3, 4	YEAR 2	FY03 1, 2, 3, 4 FY03		0.0 0.0 TC 1, 2, 3, 4		0.0 0.0 TOTAL	0 0 0 0 0 2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.9 1.0 3.9

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P-3A
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED P3A	INDIVIDUAL I	MODIFICATION																FEBRUA	RY 1997	
MODIFICATION TITLE: COMMAND & CONTROL UPGRADE MODELS OF SYSTEM AFFECTED: 1000KW GENERATORS AIT DESCRIPTION/JUSTIFICATION: Required dedicated power for I. Also	relieves shortage of availa	ble power.																		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		FY															TO COMP		TOTAL	
FINANCIAL PLAN (IN MILLIONS)		QTY PR	OR QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
RDT&E																			0	0.0
PROCUREMENT QUANTITY		0 (	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
INSTALLATION KITS INSTALLATION KITS NONRECURRING																			0	0.0 0.0
EQUIPMENT						1.8													ŏ	1.8
EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS																			0	0.0 0.0
DATA TRAINING EQUIPMENT																			0	0.0 0.0
SUPPORT EQUIPMENT																			Ö	0.0
OTHER INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT																			0	0.0
FY97 EQUIPMENT FY98 EQUIPMENT							2	3.1											0 2	0.0 3.1
FY99 EQUIPMENT FY 00 EQUIPMENT																			0	0.0 0.0
FY01 EQUIPMENT																			ő	0.0
TO COMPLETE																			0	0.0 0.0 0.0
TOTAL INSTALLATION COST		0 0.	0	0.0	0	0	2	3.1		0		0				0	0	0	2	3.1
TOTAL PROCUREMENT COST TOTAL COST		0. 0.		0.0 0.0		1.8 1.8		0.0 3.1		0.0 0.0		0.0 0.0				0.0 0.0		0.0 0.0	2	1.8 4.9
METHOD OF IMPLEMENTATION: AIT CONTRACT DATE: PRIOR Y				IISTRATIVE			DUDGETVE	. D L		PRODUCT										
CONTRACT DATE: PRIOR Y: PRODUCTION DELIVER DATE: PRIOR Y:	EAR:		CURR	ENT YEAR: ENT YEAR:	N/A			AR: June-98 AR: June-99				BUDGET Y BUDGET Y								
INSTALLATION SCHEDULE:	FY96			E1/00		E1/00		F1/00		F)/04		F)/00		E1/00						
INPUT =====>	1, 2, 3, 4	FY 1, 2,	3, 4	FY98 1, 2, 3, 4	_	FY99 1, 2, 3, 4		FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4	_	FY03 1, 2, 3, 4	_	TC 1, 2, 3, 4		TOTAL		
FY 96 & PRIOR FY 97 FY 98						2												0 0 2		
FY 99 FY 00																		0		
FY 01																		Ö		
FY 02 FY 03																		Q O		
TC																		2		
OUTPUT ====>	FY96	FY		FY98		FY99		FY00		FY01 1, 2, 3, 4		FY02	-	FY03		TC		TOTAL		
FY 96 & PRIOR	1, 2, 3, 4	1, 2,	3, 4	1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4		0		
FY 97 FY 98						2												0		
FY 99 FY 00						_												0		
FY 01																		ŏ		
FY 02 FY 03																		0		
TC																		<u>0</u> 2		
				ITEM			PAGE									CLASSIF	ICATION	: UNC! A	SSIFIED	P-3A
				5			8													

5

		BUDGET ITEM JUSTI P-40	FICATION SHEET				DATE:	
							<b>FEBRUARY</b>	′ 1997
APPROPRIATION/BUDG	ET ACTIVITY				P-1 ITEM NOMENCL	ATURE		
Other Procurement,	Navy BA 1: SHIPS S	SUPPORT EQUIPM	IENT		Other Pumps (810	GP)(0320)		
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$0.8	\$0.1	0.4	\$4.1	\$0.8	\$1.1	\$2.0	\$1.1

#### **OTHER PUMPS -**

Purchases various machinery pumps used in shipboard fluid systems such as firemain, fuel oil, potable water, lube oil, waste and drain.

#### **MACHALTS - GP211**

The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipments or systems and have limited system ramifications. The MACHALT program enables changes to be accomplished in a more expeditious manner and eliminated them from the formal SHIPALT process. MACHALTS are mostly for multi-class alterations.

## **PRODUCTION ENGINEERING - GP830**

The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD) and Allowance Parts Lists (APL's); Engineering in support of final design reviews. This work can be accomplished by NAVSSES as the In Service Engineering Agent, other Naval activities or contractors as appropriate.

## **EQUIPMENT INSTALLATION - (GP5IN)**

Funding is for the installation of equipment including Fleet Modernization Program Installation, installation of training equipment and installation of equipment in other shore facilities.

GPDSA - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 & out.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

6

**CLASSIFICATION:** 

1

BUDGET ITEM JUSTIFICATION P-40	SHEET	DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT	Other I	Pumps (81GP)

# **GP213 FLUID SYSTEM**

Fluid Systems on board navy surface ships and submarines consist of any distributed piping system carrying freshwater, saltwater, steam, fuel, lube oil or air and all of the ancillary hardware that supports the system, such as pumps, pipe hangers, turbines, motors, etc. These systems suffer abuse and degradation by virtue of the operating conditions within the conduit, (ie Piping), and the equipment transporting the fluid. The maintenance and upkeep of these systems and associated support equipment are the biggest life cycle cost drivers for HM&E equipment in the operating navy. Proper investigation and utilization of commercially available state of the art technology can drastically reduce maintenance costs, extend the operating life of the equipment and increases the operational availability and reliability of the equipment.

# GP212 LHA MIDLIFE UPGRADE (FIRE PUMPS)

This program supports material procurement and installation of engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program. This program is a joint OPNAV, CINCLANFLT, SURFLANT, CINCPACFLT, AND SURFPAC initiative to resolve maintenance deficiencies, increase readiness and reduce future maintenance costs enabling the ships to reach their service life. Joint Fleet Priority # 600 as assigned by OPNAV; NAVSEA; TYPE COMMANDERS and LHA Mid Life Management team, will procure and install GPR Fire Pumps.

**CLASSIFICATION:** 

		WEAPON SY	STEM CO	OST ANALYS	SIS EXH	IBIT			DATE:	
			(P-5)	T=====					FEBRU	JARY 1997
APPROP	RIATION/BUDGET ACTIVITY			P-1 ITEM N	OMEN	CLATURE/SUBH	EAD			
OTHER PR	ROCUREMENT NAVY BA 1: SHIPS SUPPO	RT EQUIPMEN	Ţ			PUMPS (81GP)	04115	05 001 1 400		
					IOIAL	COST IN THOU	SAND	S OF DOLLARS		
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COS	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	N87 SUBMARINES									
GP211	MACHALT	Α		499						
GP830	PRODUCTION ENGINEERING	A		349						
	SUBTOTAL N87			848						
	N85 EXPEDITIONARY WARFARE									
GP212	LHA MIDLIFE GPM FIRE PUMPS	Α			1	128	1	153	1	151
GP213	FLUID SYSTEMS IMPROVEMENT	Α								334
GP 214	PUMP ROTATABLES	Α								3,335
	SUBTOTAL N85					128		153		3,820
	TOTAL EQUIPMENT			848		128		153		3,820
GP5IN	INSTALLATION OF EQUIPMENT							247		252
GPDSA	DESIGN SERVICES ALLOCATION							44		41
	TOTAL INSTALLATION			0		0		291		293
	GRAND TOTAL			848		128		444		4,113

REMARKS

CLASSIFICATION:																			FEBRUARY	1997
P3A	INDIVIDUA	L MODIFIC	CATION																	
MODIFICATION TITLE: LHA MID-LIFE UPGRAD MODELS OF SYSTEM AFFECTED: 2000 GPM DESCRIPTION/JUSTIFICATION:	E FIRE PUMP																			
DEVELOPMENT STATUS/MAJOR DEVELOPME	NT MILESTON	IES:															TO COMP	TO COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
RDT&E																			0	0.0
PROCUREMENT																			0	0.0
QUANTITY			1		1		1		2										5	0.0
INSTALLATION KITS INSTALLATION KITS NONRECURRING																			0	0.0 0.0
EQUIPMENT				0.1		0.2		0.2		0.3									0	0.8
EQUIPMENT NONRECURRING																			0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA TRAINING EQUIPMENT																			0	0.0 0.0
SUPPORT EQUIPMENT																			0	0.0
OTHER																			ő	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 & PRIOR EQUIPMENT																			0	0.0 0.0
FY97 EQUIPMENT					1	0.3													1	0.3
FY98 EQUIPMENT							1	0.3											1	0.3
FY99 EQUIPMENT									AP	0.2	1	0.2 0.5							1	0.4
FY00 EQUIPMENT FY01 EQUIPMENT											2	0.5							2 0	0.5 0.0
FY02 EQUIPMENT																			0	0.0
FY03 EQUIPMENT																			0	0.0
TO COMPLETE																			0	0.0
TOTAL INSTALLATION COST				0	1	0.3	1	0.3	AP	0.2	3	0.7							5	1.5
TOTAL PROCUREMENT COST TOTAL COST				0.1 0.1		0.2 0.5		0.2 0.5		0.3 0.5		0.0 0.7				0				0.8 2.3
METHOD OF IMPLEMENTATION:					D 4 TIVE 1			_			DD OD!			40.00						
CONTRACT DATE: PRIOR YEAR:				CURRENT		EADTIME:	9 MONTH	S BUDGET	YFAR.	May-98	PRODU	CTION LE	BUDGET	18 Month	May-99					
PRODUCTION DELIVER DAT PRIOR YEAR:				CURRENT				BUDGET					BUDGET		Nov-00					
INSTALLATION SCHEDULE: FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03			тс				
1, 2, 3, 4	1, 2, 3, 4	-	1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4			1, 2, 3, 4	-	TOTAL	_	
FY 97			1															1		
FY 97 FY 98			1		1													1		
FY 99									0010									1		
FY 00									2									2		
																		5		
																		5		
FY96 1, 2, 3, 4	FY97 1, 2, 3, 4	-	FY98 1, 2, 3, 4	_	FY99 1, 2, 3, 4	_	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4	-	FY02 1, 2, 3, 4		FY03 1, 2, 3, 4,			TC 1, 2, 3, 4	-	TOTAL	_	
EV 07																				
FY 97 FY 98					1		1											1		
FY 99											1							1		
FY00											2							2		
																		5	_	

PAGE 5

<sup>\*2000</sup> GPM FIRE PUMPS FOR LHD1 CLAS SHIPS

		BUDGET I	TEM JUSTI P-40	FICATION	SHEET		DATE:		
			1 40				FEBRUARY 1997		
APPROPRIATION	E								
OPN BA 1: SH	IIPS SUPPOR	T EQUIPM	ENT		SUBMARI	NE PROPEL	LERS 81GQ (0510)		
	1996	1997	1998	1999	2000	2001	2002	2003	
QUANTITY	0	1	1	1	0	0	0	0	
COST (In Millions)	\$0.0	\$36.4	\$0.0	\$13.3	\$26.5	\$0.0	\$0.0	\$0.0	

ITEM DESCRIPTION/JUSTIFICATION

GQ012 SSN21 PROPULSOR - Quantity represents one complete propulsor spare and one additional rotor assembly. Based on experience gained from other submarine classes, there will be failures of critical propulsor components. The SEAWOLF unique propulsor major subassemblies procured with OPN funds will be available in the event of equipment failure which cannot be fixed through piece part repair. The SEAWOLF propulsor is a new complex design with operational failure experience factors based on equivalent failures in the fleet. There are no spares or assets to draw from in the event of a failure. Maintaining critical propulsor components will not only improve the operational availability of the class but without spares, propulsor components refurbishment together with the procurement lead-times would significantly decrease the affected ship's operational availability.

In order to minimize any ship delay, sufficient spares of the latest model propellers must be procured and placed in storage to be available for timely changeout. All items included in this P-1 Line can be installed during a dry-dock, Restricted Availability or Regular Overhaul availability.

DD Form 2454, JUL 88 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 7 PAGE NO.1

	BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATU	RE
OPN BA 1: SHIPS SUPPORT EQUIPMENT		SUBMARINE PROPE	LLERS 81GQ (0510)
ITEM DESCRIPTION/JUSTIFICATION			
The inventory objective (IO) for propellers is a numerical questablished for each propeller after considering: (1) the average annual demand (2) repair lead time (3) safety level or the quantity required to be on hand to sup (4) transportability considerations, and (5)Type Commanders annual review and recommendations. For ships entering the fleet from the shipbuilding programs propellers for which supply/demand experience has been g	pport unpredictable s, the I.O.'s annual d	fluctuations in demand or	delays in the normal refit cyc
DD Form 2454, JUL 88 P-1 SHC	OPPING LIST		CLASSIFICATION:

ITEM NO. 7 PAGE NO. 2

	PROGRAM C	OST B	REA	KDOWN					DATE:	
		P-5							FEBRU	ARY 1997
APPRO	OPRIATION/BUDGET ACTIVITY			P-1 ITEM NON	IENC	LATURE/SUBH	IEAD			
OPN BA 1: SHIPS SUPPORT EQUIPMENT   SUBMARINE PROPELLERS/ (81GQ) 0510										
				TOTAL COST IN THOUSANDS OF D			ANDS OF DOL	LLARS		
COST	ELEMENT OF COST	IDENT CODE		FY 1996	FY 1997		FY 1998			FY 1999
CODE		CODE		TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	SUBMARINES (N87)									
GQ012	SSN 21 PROPULSOR PROPULSOR ROTATING ASSEMBLY PROPULSOR AFT FIXED ASSEMBLY PROPULSOR FWD FIXED ASSEMBLY	•		0 0 0	1	10,848 25,557 0	1	0 0 0	1	13,336 0 0
	TOTALS			0		36,405		0		13,336

**DD FORM 2446, JUN 86** 

P-1 SHOPPING LIST ITEM NO. 7 PAGE NO. 3 CLASSIFICATION:

#### CLASSIFICATION:

# **UNCLASSIFIED**

			BUDGET P	ROCUREMENT		Y AND PL	ANNING			DATE		
				P-5A					T -	FEBRUARY 1997		
APPROPRIA	TION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE SUBHEAD							
OPN BA	1: SHIPS SUPPORT EQUIPMENT		SUBMAI	RINE PRO	PELLERS			81GQ				
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE	
	SUBMARINES (N87)  FY97  PROPULSOR ROTATING ASSY PROPULSOR AFT FIXED ASSY	NSY PHILA TBD	N/A FPI	NAVSEA NAVSEA	1/97 3/97	6/99 10/99	1 1	10,848 25,557	YES YES	NO NO		
GQ012	FY99 PROPULSOR ROTATING ASSY	NSY PHILA	N/A	NAVSEA	1/99	6/01	1	13,336	YES YES	NO NO		
REMAR	(S											

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 7 PAGE NO. 4

Exhibit P-20, Requirements Study  Approp (Treas) Code/CC/BA/BSA/Item (							m Control	Note			
<b>Propulsor Rota</b>		1810-B	<b>A-1</b>					February 1997			
P-1 Line Item N	omenclature	•	Adm	in L	eadtime (a	after Oct 1	): 3 mont	lBrod Lea	dtime: 30	months	
(Include DODIO	for Ammunition Items)										
Submarine Pro	pellers	PY	CY		BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
		FY96	FY97	7	FY98	FY99	FY00	FY01	FY02	FY03	
Buy Summary			)	1	0		0	0	0	0	
Unit Cost		(	0 1084			13336.0		0	0	0	
Total Cost		(	0 1084	18.0	0	13336.0	0	0	0	0	
<b>Asset Dynamic</b>											
Beginning Asse		(	)	0	0	0	1	1	2	2	
	all prior year funding										
Deliveries from						1					
Deliveries from							0				
Deliveries from								1			
Deliveries from	subsequent years' funding								0	0	
Other Gains											
Combat Losses/											
Training Losses											
Test Losses/Usa											
Other Losses/Us											
	ements/Attritions/etc.										
End of Year As	sset Position	(	)	0	0	1	1	2	2	2	
Inventory Object	tive or Current Authorized A	llowance	:								
Inventory Object	Actual Training Expenditure		an Tra	ning				Eligible f			
		Usage			(Vehicles	s/Other)		lacement:			
Assets Rqd for	PY thru	PY thru			PY thru			Eligible f			
Combat Loads:	:	:			:			lacement:			
WRM Rqmt:	PY-1:	PY-1:	1:		PY-1:		Vehicle A	Augment:	Attrition	Res:	
Pipeline:	PY-2:	PY-2:			PY-2:				BAI		
Other:	PY-3:	PY-3:			PY-3:					lnv:	
TOTAL:									Storage:		
REMARKS:											

P-1 Shopping List Item No 7-5

Page No 5 **Exhibit P-20 Requirements Study** 

Exhibit P-20, Re	equirements Study	(Treas) Co	de/CC/BA	A/BSA/Ite	m Control	Nøte				
<b>Propulsor Aft F</b>	Fixed Assembly	1810-B					February 1997			
P-1 Line Item N		•	Admin I	eadtime (	after Oct 1	): 3 mont	Rrod Leadtime: 36 months			
(Include DODIC	for Ammunition Items)									
Submarine Pro	pellers	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
		FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	
Buy Summary		(		0	0	0	0	0	0	
Unit Cost		(			0	_	-	0	0	
Total Cost		(	25557.0	0	0	0	0	0	0	
<b>Asset Dynamics</b>										
Beginning Asset		(	0	0	0	0	1	1	1	
	all prior year funding									
Deliveries from						1				
Deliveries from							0	0	0	
Deliveries from							0	0	0	
	subsequent years' funding									
Other Gains										
Combat Losses/										
Training Losses										
Test Losses/Usa										
Other Losses/Us										
	ments/Attritions/etc.									
End of Year As		(	,	0	0	1	1	1	1	
Inventory Objec	tive or Current Authorized A	llowance								
Inventory Object	t <b>Axe</b> tual Training Expenditure	oxOther th	 an Trainin	«Disnosal	\$	Vehicles	L Eligible f	o <b>≜</b> ircraft:		
inventory object	areau Tuming Expenditure	Usage	un Trummi	(Vehicle			lacement:			
Assets Rqd for	PY thru	PY thru		PY thru			Eligible f			
Combat Loads:	:	:		:			lacement:			
	PY-1:	PY-1:		PY-1:				Attrition	Res:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive 1	nv:	
TOTAL:								Storage:		
<b>REMARKS:</b>				_						

P-1 Shopping List Item No 7-6

Page No 6 **Exhibit P-20 Requirements Study** 

		DATE:								
							FEBRUARY 199	7		
APPROPRIATION	ON/BUDGET A	CTIVITY			P-1 ITEM NOI	MENCLATURE				
HER PROCURE	MENT NAVY B	A 1: SHIPS SU	IPPORT EQUIPM	ENT	OTHER PROF	PELLERS AND	SHAFTS 81GR 054	HAFTS 81GR 0540		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
(In Millions)	\$1.5	\$2.8	\$1.5	\$2.9	\$1.6	\$1.5	\$1.5	\$1.6		

## PROPELLERS AND SHAFTS

This Line Item supports all "S" cognizance Ships Propellers and Shafts which are not listed as separate P-1 Items. A ship's operating ability is directly related to the condition of its propellers and shafts. A malfunctioning propeller or shaft can result in excessive vibration, noise, loss of speed or possible loss of motion. In addition, these items are susceptible to damage, have long repair lead time, and due to their increased size and weight, are becoming more difficult to transport. As a result of these conditions, it is mandatory to store propellers/shafts at sufficient locations to avoid delaying ship's deployments. It should be noted that in addition to new propellers and shafts required to support active fleet ships, planning for spares to support ship classes still under construction such as CG-47 and AOE-6 and new ship classes being introduced such as DDG 51, must be accommodated with this P-1 line item. These propellers and shafts can be installed during drydocking, Selected Restricted Availability or Regular Overhaul and in the event of a casualty, propellers can be waterborne installed alongside a tender.

The Inventory Objective (I.O.) for propellers and shafts is a numerical quantity referred to as the "Maintenance Stock Objective" (MSO). The MSO is a numerical quantity established for each propeller and shaft after considering: (1) the average annual demand, (2) Repair lead time, (3) safety level or the quantity required to be on hand to support unpredictable fluctuations in demand or delays in the normal refit cycle, (4) transportability considerations, and (5) Type Commanders review and recommendations. For ships entering the Fleet from the shipbuilding programs, the I.O.'s annual demand is based upon experience with similar type propellers and shafts for which supply/demand experience has been gained.

**CLASSIFICATION:** 

P-1 SHOPPING LIST ITEM NO. PAGE NO.

BUDGET ITEM JUSTIFICATION SHEET DATE:
P-40A
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT NAVY B SHIPS SUPPORT EQUIPMENT

OTHER PROPELLERS AND SHAFTS/81GR 0540

**INTERMEDIATE SHAFT CG-47 CL: (GR022)** 

The Maintenance Stock Objective (MSO) for Intermediate Shaft CG-47 CL is 4. 1 in use in active fleet. 1 unit has been procured in prior years. 2 are included in the budget years. Unit Cost is estimated at \$215K.

# BLADE SET, PORT/STDB DDG-51 CL; (GR044)

The Maintenance Stock Objective (MSO) for Blade Set, Port/STBD DDG 51 CL is 11 to support the DDG 51 CL ships. One Shipset is being procured by SCN. The other 10 are required to complete the MSO. The inventory objective is 11. 1 unit has been procured in Prior years. 4 are included in the Budget years. 5 are to be procured in subsequent years. Unit cost is estimated at \$539K.

## HUB SET PORT/STBD DDG-51 CL; (GR045)

The Maintenance Stock Objective (MSO) for DDG-51 CL Hub Sets is 9 to support the DDG-51 CL ships. One shipset is being procured by SCN. Inventory objective is 9 which are required to complete the MSO. 1 is included in budget year. 7 are to be procured in subsequent years. Unit Cost is estimated at \$707K.

# PROP SHAFT DDG-51 CL; (GR046)

The maintenance Stock Objective for Prop Shaft DDG-51 CL is 12 to support DDG-51 CL ships. Two shipsets are being procured by SCN. Inventory Objective is 12 which are required to complete MSO. 1 is included in budget year. 9 are to be procured in subsequent years. Unit cost is estimated at \$394K.

# SSN 688 IPMP SHAFT (GR055)

The Main Propulsion Propeller Shaft for the four SSN 688 Class ships being built with the Improved Performance Machinery Propulsion (IPMP) system is a different configuration and is not interchangeable with the standard SSN 688 Class propeller shaft. The inventory objective is 2. 1 unit has been procured in prior years. 1 unit to be included in the Budget year. 0 to be procured in subsequent years. Unit costs \$631,000.

## OD BOXES PORT/STBD CG-47 CL (GR060)

The Maintenance Stock Objective (MSO) for OD Boxes, Port/STBD CG-47 (GR060) is 4. 1 unit has been procured in prior years. 1 unit to be included in the budget years. 2 units to be procured in subsequent years. Unit Cost is estimated at 254,000.

P-1 SHOPPING LIST ITEM N(PAGE NO.

2

CLASSIFICATION: UNCLASSIFIED

	<b>BUDGET ITEM JUSTIFICATION SHEE</b>	T	DATE:	
	P-40A			
				FEBRUARY 1997
APPROPRIATION/BUDGET	ACTIVITY	P-1 ITEM NOMENCLA	TURE	

# THER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMEN OTHER PROPELLERS AND SHAFTS 81GR 0540

PROPELLERS, AOE-6 CL (GR056); (INTERMEDIATE SHAFT PORT, AOE 6 CL (GR061) AND INTERMEDIATE SHAFT STBD, AOE 6 CL (GR062)
The AOE 6 Class propeller is the largest propeller in U.S. Navy service and can be only transported via water vice over the road or by the air.
Accordingly, spare propellers should be positioned on the East and West coasts and in WESTPAC to preclude lengthy ship down-time if propeller replacement is required and the spare propeller must be shipped via water from one coast to the other or to WESTPAC. One shipset each of spare propellers and the propeller shafts have been funded by the shipbuilding program with SCN funds. The following items and quantities remain to be procured to meet the Inventory Objective for support of the Class; Propeller shipsets - 1; Intermediate Shaft shipset - 2; Stern Tube Shaft shipset - 2. Originally, it was planned to procure the AOE 6 CL propellers from commercial sources. However, due to the decrease in submarine propeller manufacturing requirements, caused primarily by the significant reduction in the planned number of SEAWOLF Class submarines to be built, the AOE 6 CL propellers will be manufactured by the Propeller Center at the Philadelphia Naval Shipyard (PNSY). The PNSY propeller Center and Foundary were found to be core logistic facilities within the meaning of 10 U.S.C. 2464. Workload at the PNSY Propeller Center is currently below capacity and will continue to diminish due to the decreased submarine propeller manufacturing requirements.

To maintain the PNSY Propeller manufacturing facility, future procurements of selected surface ship monobloc propellers and controllable pitch propeller blades will be directed to the Propeller Center.

#### HUB SET PORT/STBD CG-66-73 (GR066)

The Hubs installed on CG 66-73 are a different configuration from the prior ships of the CG 47 class. The maintenance stock objective is two to support the 8 ships. No units have been procured in prior years. One set will be procured in the budget years with the remaining set planned for FY 2001. Unit cost is estimated at \$657K.

#### **GR067 SHAFTING ROTATABLES**

LHA 1 Class Mid-Life Maintenance Program identified a maintenance problem directly related to excessive turn-around time for repair of certain equipments. This resulted in decreased system readiness and decreased ship operational availability. For ships in depot availabilities, these delays resulted in increased overall maintenance costs. The cost effective solution is procurement of selected equipments for use in a rotatable pool, which will decrease system repair time, reduce overall maintenance costs and improve ship operational availability.

#### **GR830 PRODUCTION ENGINEERING**

The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts Lists (APL's) Engineering in support of final design reviews. This work can be accomplished by NAVSSES as the in service Engineering agent, other Naval Activities or contractors as appropriate.

P-1 SHOPPING LIST ITEM NO. 8 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION UNCLASSIFIED

**WEAPON SYSTEM COST ANALYSIS** DATE: EXHIBIT (P-5) **PROGRAM COST BREAKDOWN FEBRUARY 1997** APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT OTHER PROPELLERS AND SHAFTS (81GR) 0540 TOTAL COST IN THOUSANDS OF DOLLARS COST **IDENT** FY 1996 FY 1997 FY 1998 FY 1999 **ELEMENT OF COST** CODE CODE QTY TOTAL COST QTY TOTAL COST QTY **TOTAL COST** QTY **TOTAL COST** SUBMARINES N87 SSN 688 IPMP Shaft 631 **GR055** Α 1 **SUBTOTAL N87** 631 SURFACE SHIPS N85/N86 GR022 Intermediate Shaft, CG- 47 CL 2 Α 430 **GR044** Blade Set Port/STBD, DDG-51 CL 2 1078 2 1102 Α GR045 Hub Set Port/STBD, DDG-51 CL 707 Α GR046 Prop Shaft DDG-51 CL 394 Α **GR056** Propellers, AOE--6 CL 2 1185 Α **GR060** OD Boxes, Port/Stbd CG-47 CL Α 1 254 GR061 Intermediate Shaft, Port AOE-6 CL Α 174 223 **GR062** Intermediate Shaft, STBD, AOE-6 CL 2 Α 348 **GR066** Hub Set, Port/STBD, CG-66-73 Α 657 GR830 **Production Engineering** Α 160 97 LHA Shafting Rotatables GR067 1328 SUBTOTAL N85/N86 1519 2207 TOTAL 1519 2838 1496 2915

UDGET ACTIVITY		P-5A							A. DATE	
UDGET ACTIVITY		r-JA		C. P-1 ITE	EM NOMENCI	ATURE			I FREE	uvi 1991
IENT NAVY BA 1:										
UIPMENT				OTHER P		FTS	81GR/0540			
										IF YES
LINE ITEM FISCAL YEAR	AND LOCATION	METHOD & TYPE	BY BY	AWARD DATE	FIRST DELIVERY	QUANTITY	COST			WHEN AVAILABLE
NTERMEDIATE SHAFT CG-47 CL										
FY 1997	UNKNOWN	RCP/FP	SPCC MECH	Jun-97	Dec-98	2	215,000	YES	NO	
BLADE SET PORT/ STBD DDG-51 CL										
FY 1997 FY 1998	UNKNOWN UNKNOWN	RCP/FP RCP/FP/OPT	SPCC MECH SPCC MECH	Jul-97 Dec-97	Jan-99 May-99	2 2	539,000 551,000	YES YES	NO NO	
HUB SET PORT/STBD DDG-51 CL										
FY 1999	UNKNOWN	RCP/FP	SPCC MECH	May-99	Nov-00	1	707,000	YES	NO	
PROP SHAFT DDG-51 CL FY 1998	UNKNOWN	RCP/FP	SPCC MECH	May-98	Nov-99	1	394,000	YES	NO	
SSN 688 IPMP SHAFT										
FY 1997	UNKNOWN	RCP/FP	SPCC MECH	Feb-97	Feb-99	1	631,000	YES	NO	
PROPELLERS, AOE 6 CL										
FY 1996	NSY PHILA	PX	NAVSEA	Jan-96	Jan-98	2	592,500	YES	NO	
OD BOXES PORT/ STBD CG-47 CL										
FY 1997	UNKNOWN	RCP/FP	SPCC MECH	Jul-97	Jan-99	1	254,000	YES	NO	
HUB SET, PORT/STBD, CG-66-73 FY 1999	UNKNOWN	RCP/FP	SPCC MECH	May-99	Nov-00	1	657,000	YES	NO	
	LINE ITEM FISCAL YEAR  NTERMEDIATE SHAFT CG-47 CL FY 1997  STBD DDG-51 CL FY 1998  HUB SET PORT/STBD DDG-51 CL FY 1999 PROP SHAFT DDG-51 CL FY 1998 SSN 688 IPMP SHAFT FY 1997 PROPELLERS, AOE 6 CL FY 1996 DD BOXES PORT/ STBD CG-47 CL FY 1997	LINE ITEM FISCAL YEAR  CONTRACTOR AND LOCATION  NTERMEDIATE SHAFT CG-47 CL FY 1997 UNKNOWN  SLADE SET PORT/ STBD DDG-51 CL FY 1998 UNKNOWN  HUB SET PORT/STBD DDG-51 CL FY 1999 UNKNOWN  PROP SHAFT DDG-51 CL FY 1998 UNKNOWN  SSN 688 IPMP SHAFT FY 1997 UNKNOWN  PROPELLERS, AOE 6 CL FY 1996 NSY PHILA  DD BOXES PORT/ STBD CG-47 CL FY 1997 UNKNOWN	LINE ITEM FISCAL YEAR  CONTRACTOR AND LOCATION  RETHOD & TYPE  NTERMEDIATE SHAFT CG-47 CL FY 1997  BLADE SET PORT/ STBD DDG-51 CL FY 1998  UNKNOWN RCP/FP RCP/FP/OPT  HUB SET PORT/STBD DDG-51 CL FY 1999  PROP SHAFT DDG-51 CL FY 1998  UNKNOWN RCP/FP  PROP SHAFT DDG-51 CL FY 1998  UNKNOWN RCP/FP  PROPELLERS, AOE 6 CL FY 1996  NSY PHILA PX  DD BOXES PORT/ STBD CG-47 CL FY 1997  UNKNOWN RCP/FP  UNKNOWN RCP/FP  PROPELLERS, AOE 6 CL FY 1996  UNKNOWN RCP/FP  UNKNOWN RCP/FP	LINE ITEM FISCAL YEAR  CONTRACTOR AND LOCATION  NTERMEDIATE SHAFT CG-47 CL FY 1997  UNKNOWN RCP/FP SPCC MECH  BLADE SET PORT/ STBD DDG-51 CL FY 1998  UNKNOWN RCP/FP SPCC MECH  BUB SET PORT/STBD DDG-51 CL FY 1999  UNKNOWN RCP/FP SPCC MECH  PROP SHAFT DDG-51 CL FY 1998  UNKNOWN RCP/FP SPCC MECH  PROPELLERS, AOE 6 CL FY 1996  NSY PHILA PX NAVSEA  DD BOXES PORT/ STBD CG-47 CL FY 1997  UNKNOWN RCP/FP SPCC MECH	LINE ITEM FISCAL YEAR  CONTRACTOR AND LOCATION  CONTRACT METHOD BY  CONTRACTED BY  AWARD DATE  CONTRACTED BY  CONTRACTED BY  AWARD DATE  CONTRACTED BY  AWARD CONTRACTED BY  AWARD DATE  CONTRACTED BY  AWARD AWARD CONTRACTED BY  AWARD AWARD CONTRACTED BY  AWARD AWAR	LINE ITEM FISCAL YEAR  CONTRACTOR AND LOCATION  REPROPS & SHA  CONTRACTED BY  CON	LINE   ITEM   FISCAL YEAR   CONTRACTOR   AND LOCATION   A TYPE   CONTRACTED   BY   DATE   OF FIRST   OF FIRST   OF FIRST   OF FIRST   OF FIRST   OF FIRST	UNKNOWN   RCP/FP   SPCC MECH   May-99   Nov-00   1   394,000   SSN 688 IPMP SHAFT   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   May-98   Nov-99   1   631,000   SSN 688 IPMP SHAFT   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   Feb-97   Feb-99   1   631,000   SPCC MECH   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   FY 1998   SSN 688 IPMP SHAFT   FY 1997   UNKNOWN   RCP/FP   SPCC MECH   Feb-97   Feb-99   1   631,000   SPCC MECH   FY 1996   NSY PHILA   PX   NAVSEA   Jan-96   Jan-98   2   592,500   SPCC MECH   SPCC MECH   Jul-97   Jan-99   1   254,000   SPCC MECH   SPCC MECH   SPCC MECH   Jul-97   Jan-99   1   254,000   SPCC MECH   SPCC M	UNKNOWN   RCP/FP   SPCC MECH   May-99   Nov-99   1   SPC,000   YES   SPC MECH   SPC ME	UPMENT

## UNCLASSIFIED

		BUDGET PROCUR	EMENT HISTOI P-5A	RY AND PLAN	IING					A. DATE FEBRUA	RY 1997
B. APPROPRIATION/ OTHER PROCUREME SHIP SUPPORT EQU	ENT NAVY BA 1:					M NOMENCLA	TURE 'S 81GR/0540				
COST ELEMENT/ FISCAL YEAR	LINE ITEM FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
GR061	INTERMEDIATE SHAFT PORT AOE-6 CL 1996 1999	ERIE FORGE, PA UNKNOWN	RCP/FP RCP/FP	SPCC MECH SPCC MECH	Aug-96 May-99	Aug-98 May-01	1 1	174,000 223,000	YES YES	NO NO	
GR062	INTERMEDIATE SHAFT, STBD AOE-6 CL 1997	UNKNOWN	RCP/FP	SPCC MECH	Jan-97	Jan-99	2	174,000	YES	NO	
GR067	SHAFTING ROTATABLES 1999	UNKNOWN	RCP/FP	SPCC MECH	Mar-00	Sep-00		1,328,000			
GR830	PRODUCTION ENG 1996 1996 1996 1997	SPCC MECH JJ MCMULLEN SPCC MECH SPCC MECH	WR LOE WR WR	NAVSEA NAVSEA NAVSEA NAVSEA	Mar-96 Mar-96 Feb-97 Dec-96	Sep-96 Mar-97 Sep-97 Sep-97		20,000 50,000 90,000 97,000			
D REMARKS											

D. REMARKS

ITEM NO. PAGE NO. 8 6

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:			UN	CLAS	SSIF	ED				
EXHIBIT P-40 BUDGET ITEM JUSTIFICATION									DATE	
									Febru	uary 1997
APPROPRIATION CODE/CC/BA/BSA/ITEM CONTRO	L NUMBER						P-1 ITE	M NOME		
OPN/BA-1: SHIPS SUPPORT EQUIPMENT/	067000						OTHER	NAVIGA	TION E	QUIPMENT/81GV
PROGRAM ELEMENT FOR CODE B ITEMS							OTHER	RELATE	D PROG	RAM ELEMENT
RLGN: 060456N							011121			
	PRIOR	ID CODE	1996	1997	1998	1999	2000	2001	2002	2003
PROC QTY										
GROSS COST					+					
LESS PY ADV PROC										
PLUS CY ADV PROC										
NET PROC (=P-1)										
INITIAL SPARES										
TOTAL PROC COST										
(In Millions)			\$25.7	\$26.5	\$31.6	\$46.0	\$0.0	\$0.0	\$0.0	\$0.0
FLYAWAY U/C										
WPN SYS PROC U/C										
Unit costs are various.										
This is a continuing program composed of both maintenance equipment type equipment as follows:	nent and newly develope	ed improvements r	equired for m	aintenance,	shipalts, an	d training; i	ncluding a	cross section	n of naviga	ti
							*******			
GW006: FY 1996 and outyear maintenance component funds will to AN/WSN-7 Ring Laser Gyro Navigator (replacement for AN/WSN-7).										
accelerometers, and depot test equipment. Procurement of major co										
rates. The depot test equipment is required to support checkout and										
components are essential to operation and performance of AN/WSN	I-2/5 navigation systems	. Procurements as								
performance of the navigation systems to support ship and combat s	system mission requirem	ents.								
GW013: FY 1996 and outyear funds for Navigation Field Change I	Kits will procure reliabili	ity and maintainab	oility improve	ments and c	orrections f	or various e	quipment -	Dead Reck	oning Anal	y:
Indicator (DRAI), plotters, gyro compasses, Electromagnetic Log (I										
MOD 6. These changes are required to keep Fleet-installed equipm	ent operating to a basic l	evel.								
GW014: FY 1996 and outyear funds are required for replacement of	of the AN/WSN-5 Input/	Output Console cu	irrently instal	led in variou	is surface c	ombatants (	OA-7984 aı	nd OL-267)	with the O	ìL-
405/WSN-5. This replacement is required to improve the current of	perational availability an	d life cycle cost ar	nd ensure the	navigation s	ystem is in	a state of o	perational re	eadiness. N	AVSEA w	ill procure 11
units for backfit on CG 49 Class ships, one unit per ship, at an estim	nated total cost (including	g installation) of \$	1.3M. Units	willl be proc	ured as foll	ows: FY96	& prior = 7	7 units; FY9	97 = 2 units	; FY98 = 2
units. NISE East (Norfolk) will be the installing agent beginning in	FY95 with installation a	as reflected on the	P-3A.							
		P-1 SHOPPI	NG LIST IT	EM NO. 9		PAGE I	NO. 1 of	3		
								CLASS	SIFICATION	ON:
								UIN	<b>ULA</b>	SSIFIED

CLASSIFICATION:	UNC	CLASSIFI	ED			
EXHIBIT P-40 BUDGET ITEM JUSTIFICATION						DATE
						February 1997
APPROPRIATION CODE/CC/BA/BSA/ITEM CONTROL N	NUMBER		P-1	1 ITEM NO	MENCLATURE	
OPN/BA-1: SHIPS SUPPORT EQUIPMENT/0	67000		от	THER NAV	IGATION EQUIPMENT/81GW	
PROGRAM ELEMENT FOR CODE B ITEMS			ОТ	HER REL	ATED PROGRAM ELEMENTS	
RLGN: 060456N						
CW004 FV 1006 for Lawrence de ANAZOO 1 Avel	ini and A and It Discotion	C		1		
GW024: FY 1996 funds are required to procure the AN/KSQ-1 Amph surface amphibious assaults launched from extended Over-The-Horizo						
integrates it with shipboard navigation and communications systems.	The project is required to	identify track commu	nicate with and	d control la	anding craft from launch through	transit offload and return
The AN/KSQ-1 program was zeroed in FY97 and out.	The project is required to	racitify, track, commu	meate with, and	d control it	manig craft from launch through	transit, officad and return.
The same of a benderic and a same and						
GW029: FY 1996 and outyear funds are required for AN/WSN-2, AN	/WSN-5 and CVNS Eng	ineering Change Propos	sals (ECPs)/Fiel	ld Change	(FC) Kits which will procure re	liability and maintainability
improvements, corrections and upgrades for various navigation system	s. This includes AN/WS	SN-2/-5 product improve	ements, Global	Positionin	g System (GPS), Aircraft Inerti-	al Alignment System (AIAS),
MK 70 Mod 6 Switchboard Ordalt and CA-64(XN-1)/U shipalt.						
- AN/WSN-2 and Product Improvement (Field Change #1) will provid - AN/WSN-2/2A Directional Gyro (Field Change #2) incorporates ope - Output Only (Field Change #2) converts input/output configured AN/AN/WSN-5 by individual platform combat weapon systems.	rational engineering char	nges to correct for defici	encies in the gy	yro mode o	of operation.	
- Global Positioning System (GPS) (Field Change #4) provides a softw	are and firmware change	along with increased m	nemory canabili	ity to the A	N/WSN-5 which facilitates the	direct interface of the
AN/WRN-6 GPS User Equipment. GPS will provide extremely accura				ity to the r	ii v vv ji v j, wii en raemaates are	direct interface of the
- Aircraft Inertial Alignment System (Field Change #6) provides change				e AN/WSN	N-5 which will allow it to transn	nit position and attitude
information to the AV-8B and rotary wind aircraft attached to LHD/LF	IA class ships.					•
- Field Change #7 to the AN/WSN-5 incorporates engineering changes						
premature IMU failures and Inverter failures. In addition, modification						intain data integrity.
- AN/WSN-5 Field Change #8 provides changes and additions to the so						
- The MK 70 Mod 6 Switchboard Ordalt allows constant monitoring of						
- CA-64(XN-1)/U shipalt will replace the out of production OA-7984 t	hereby improving the cu	rrent operational availab	pility and life cy	ycle cost a	nd ensuring that the navigation s	ystem is in a state of
operational readiness.	LCu - I - I - I - I					
- TS-4491 shipalt will replace the Input/Output console on RLGN bac		on founds one access to	man anne DMD	TC 6-11-1	on one monte comment of the last	
GW031: FY 1996 and outyear Dual Miniature Navigation System (DN automated test equipment/computer at the DMINS Repair Depot, Inert.						
automateu test equipment/computer at the Divinis Repair Depot, mert	P-1 SHOPPING LI		PAGE NO.		и посишентации.	
	1 -1 SHOFFING LI	OT ITEM NO. 9	I AGL NO.		CLASSIFICATION:	
				_		
					UNCLASSIF	EU

CLASSIFICATION:		UNC	LAS	SIFIE	ED		
EXHIBIT P-40 BUDGET ITEM JUSTIFICATION							DATE
							February 1997
APPROPRIATION CODE/CC/BA/BSA/ITEM CON	<b>ITROL NU</b>	MBER				P-1 ITEM NOMENCLA	TURE
OPN/BA-1: SHIPS SUPPORT EQUIPME	NT/06700	00				OTHER NAVIGATION	EQUIPMENT/81GW
PROGRAM ELEMENT FOR CODE B ITEMS						OTHER RELATED PR	OGRAM ELEMENTS
RLGN: 060456N							
7.20.00.000.000							
W034: FY 1996 funds are required to procure the Position Location						IF radio transceivers that	
utomatically exchange pre-formatted data messages enabling the posit	non of all units	in the PLRS r	adio network	to be rapidly o	letermined.		
	1	L					
W035: FY 1996 and out year Ring Laser Gyro Navigator (RLGN) for							
leet shipboard use. Congress has mandated that the Navy competitive							
chnology is less expensive, more reliable and has lower cost of owner							
oplications, longer life cycle support costs and extended endurance. E							
evelopment Test and Evaluation Schedule is as follows: DT-IIa=1/96	; DT-IIb=4/96;	DT-IIc=6/96	DT-IId=10/9	6. OT&E is s	cheduled for 1	1/96. Completion of Mileston	ne III is
nticipated for 6/97. NAVSEA will procure a total of 171 shipsets (2 s	ystems per ship	set) for backfi	t on submarir	es (AN/WSN	-3), surface co	mbatants (AN/WSN-5) and ca	arriers
CVNS) at an estimated total cost (including installation) of \$208.5M.	RLG was appre	oved for Low	Rate Initial Pr	oduction 12/9	4. Procureme	ent began in FY95, using FY95	and prior
N/WSN-2/5 Field Change funds (GW029). Procurement is as follow							
Y01=26 shipsets; FY02=21 shipsets. NISE East, Norfolk will be the							
vill be installed as shown on the P-3A.	anstanning agent		1 / With his	tunution uoou	14 1 00 17 0	ass compatants. The remaining	
This de histaned as shown on the 1-5A.							
W1020 FW 1006 1 4 6 1 1 1 1 1 ANIWON 2/5	1 4 : 6 0	NT	G (CV)	10) 1 1			
W830: FY 1996 and outyear funds are required for AN/WSN-2/5 and							
nanagement/technical support for hardware procurements and system							
ocumentation; production configuration control; maintenance enginee	ring and logisti	ic supportabili	ty efforts desi	gned and inco	rporated into	the production manufacturing	process.
W5IN: FY 1996 and outyear Installation funding identified supports	installation of (	 	onsoles (Shin	alt 370) aboard	l CG 47 Class	ships installation of RLGN a	board
urface combatants (CG47 and DDG 51 Classes), and installation of PL							oouru
HE BUDGET REFLECTS THE TRANSFER OF DESIGN SERVICE	S INTO THE A	APROPRIATE	EQUIPMEN	  T P-1   I INF	L FEM REGINN	JING IN FY98	
ILE BODGET REFERENCE THE TRANSPER OF BESTON SERVICE	S II (10 IIIL P	II KOI KIMIL	EQUI MEN	I I DINE I	LA DEGIN	11.0 11 1170.	
	P-1 SHO	PPING LIS	ST ITEM I	NO. 9	PAGE N		
						CLASSIFIC	CATION:
						LINCI	LASSIFIED
						0.10	

# CLASSIFICATION: UNCLASSIFIED

		WEAF EXHIE		SYSTEM COS	T AN	ALYSIS			DATE	
APPRO	OPRIATION/BUDGET ACTIVITY	EXHIE	) III (P		IENC	LATURE/SUBH	IEAD		Febru	ary 1997
OPN E	SA-1: SHIPS SUPPORT EQUIPMENT	_		OTHER NA	VIGA	ATION EQUII	PME	NT/81GW		
						COST IN THOU			RS	
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
CODE		CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS
GW006	SUBMARINES - N87 AN/WSN-2 MAINTENANCE COMPONENTS			369		150		228		166
GW029	NORFOLK NAVIGATION FC KITS AN/WSN-2/7 ECP/FC KITS DMINS			700 821 57		0 315 62		515 661 67		577 577
GW035	RING LASER GYRO NAVIGATOR (AN/WSN PROD ENGINEERING FOR AN/WSN-2/7	В	7	9,141 402		0 64		0 318	4	3,497 360
	SUB-TOTAL			11,490		591		1,789		4,633
	SURFACE SHIPS - N86 AN/WSN-2/5 MAINTENANCE COMPONENT NORFOLK NAVIGATION FC KITS	 'S 		2,970 150		2,131 250		6,252 258		5,63 <sup>-</sup> 26
GW014	AN/WSN-5 I/O CONSOLE AN/WSN-2/5/7 ECP/FC KITS	Α	5	345 1,037	2	142 8,603	2	146 3,616		6,35
	RING LASER GYRO NAVIGATOR (AN/WSN PROD ENGINEERING FOR AN/WSN-2/5/7 SUB-TOTAL	В	2	2,881 612 7,995	12	10,156 846 22,128	12	8,944 840 20,056	25	19,238 97 32,478
	AMPHIBIOUS SHIPS - N85			1,000				20,000		02,
GW024 GW034	AN/KSQ-1 AMPHIB ASSAULT SYSTEM PLRS SUB-TOTAL	A A	Var Var	2,398 821 3,219		0 0		0		
	AIRCRAFT CARRIERS - N88			3,219						,
GW031	CVNS/WSN-7 ECP/FC KITS DMINS ECP/DOCUMENTATION			397 84		1,237 124		2,637 124		2,69 12
	RING LASER GYRO NAVIGATOR (AN/WSN- PROD ENGINEERING FOR CVNS/AN/WSN- SUB-TOTAL			0 100 581	1	824 341 2,526	4	3,395 430 6,586	3	2,639 41 5,87
	TOTAL - PROCUREMENT			23,285		25,245		28,431		42,98

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 9 PAGE NO. 4 CLASSIFICATION:

CLASSIFIC	CATION:	UNCLA	SSIFIED								
									DATE:		
			EM COST ANALYSIS								
		EXHIBIT (P-5)							February 1	997	
APPROF	PRIATION/			P-1 ITEM N	OMENC	LATURE/SU	BHEAD				
OPN BA	A-1: SHIF	PS SUPPORT E	QUIPMENT	OTHER I	NAVIGA	ATION EQ	UIPMEN	T/81GW			
				TOTAL C	OST IN 1	THOUSANDS	OF DOLL	.ARS			
COST	ELEMEN	IDENT		FY 1996		FY 1997		FY 1998		FY 1999	
CODE		CODE		1 1 1000		1 1 1001				1 1 1000	
		002	QTY	DTAL COS	QTY	DTAL COS	QTY	TAL COS	QTY	OTAL COST	
	SUBMAR	INES - N87									
		ATION OF EQUIPM	ENT (FMP)	1,100		0		1,854		0	
GW5IN	FMP DES	IGN SERVICES AL	LOCATION	0		0		425		0	
SU	JB-TOTAL			1,100		0		2,279		0	
<u> </u>	CUDEAC	CHIDS NOS									
GW5IN		SHIPS - N86 ATION OF EQUIPM	ICNIT (CMD)	8		4 200		684		2 244	
		IGN SERVICES AL		0		1,289 0		158		2,241 349	
	JB-TOTAL	IGN SERVICES AL	LOCATION	8		1,289		842		2,590	
30	D-IOIAL			•		1,209		042		2,390	
	AMPHIBI	US SHIPS - N85									
GW5IN		ATION OF EQUIPM	IENT (FMP)	1,334		0		0		0	
	JB-TOTAL		,	1,334		0		0		0	
	4100045	T O A D D I E D O A NO									
GW5IN		T CARRIERS - N88 ATION OF EQUIPM								240	
		IGN SERVICES AL		0		0		0		318 74	
	JB-TOTAL	IGN SERVICES AL	LOCATION	0		0		0		392	
L - INSTA	LLATION			2,442		1,289		3,121		2,982	
							<u> </u>			15.05	
GRAN	ID TOTAL			25,727		26,534	-	31,552		45,970	
DD FORM	   2446, JUN	P-1 SHOPPING LI	I ST					CLASSIFI	CATION:		
		ITEM NO. 9		PAGE NO.	5						
							UN	CLA	SSI	FIED	

## **UNCLASSIFIED**

		BUDGET PROCUREME	NT HISTOR	RY AND PLANNING	EXHIBIT	(P-5A)				DATE	
										February	1997
APPROPRIA	TION/BUDGET ACTIVITY				P-1 ITEM NO	MENCLATUR	E		SUBHEAD		
OPN BA	-1: SHIPS SUPPORT E	EQUIPMENT			OTHER	NAVIGATI	ON EQUIP	MENT	81GW		
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
GW014	OL-405 I/O CONSOLI FY 1996 FY 1997 FY 1998	E TBD TBD TBD	C/FP C/FP C/FP	TBD TBD TBD	04/96 04/97 04/98	01/97 01/98 01/99	5 2 2	69.0 71.0 73.0	YES YES YES	NO NO NO	
GW024	AN/KSQ-1* (GPSUI) FY 1996 (Option 1) FY 1996 (Option 2)	SECHAN ELEC LITITZ, PA	COMP	css	05/96 09/96	11/96 03/97	62 77	4.5 4.5	YES	NO	
GW034	PLRS* FY 1996 (Various)	CSS	WX	NAVSEA	02/96	02/96	VAR	N/A	NO	NO	
GW035	,	** SPERRY MARINE HARLOTTESVILLE, VA	FPI	NAVSEA	07/96	01/98	7 2	1,305.9 1,440.5	NO	NO	
	(Carrier)	SPERRY MARINE   HARLOTTESVILLE, VA		NAVSEA	04/97	10/98	12 1	846.3 824.0	NO	NO	
	(Carrier)	SPERRY MARINE HARLOTTESVILLE, VA		NAVSEA	04/98	10/99	12 4	745.3 848.8	NO	NO	
2514.2	(Surface (Carrier)	SPERRY MARINE   HARLOTTESVILLE, VA	FFP	NAVSEA	04/99	10/00	4 25 3	874.3 769.5 879.7	NO	NO	

#### REMARKS

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 9 PAGE NO. 6

The AN/KSQ-1 is made up of 3 configurations, 1 for the Amphibious Command Group (ACG), 1 for the Secondary/Primary Control Group (PCG) and 1 for the User Terminal Group (UTG). The AN/KSQ-1 system includes the following equipments: GPSIU, TAC-N Computer, RG Enclosure, Printer, Cable Assemblies, Mute Interface Box and various connectors. The PLRS system includes the following equipments: Receiver-Transmiter, Control Readout Unit, Pilot Control Display Panel, Power Adapter, Remote Annuniciator, CRU and Downsized Master Station. FY96 procurement consists of various installation materials, production supt and ECP changes.

<sup>\*\*</sup> Note: Cost variances between Surface, Submarine and Carrier configurations due to additional circuit cards required for aircraft alignment (Carrier) and for extra cabinetry for the submarine configuration. FY96 includes non-recurring.

CLASSIFICATION: LINCLASSIFIED

CLASSIFICATION: U	UNCLASSIFIED																			
P3A					DDIFICATIO												DATE:	Februa	ry 1997	
MODIFICATION TITL		OL-405 Input/Outpu	t Console (AL	Г 00370	) G	W014														
	EM AFFECTE AN/WSN-5																			
DESCRIPTION/JUST	TIFICATION: The AN/WSN																		DL-405.	
		nust be installed pric	or to or concur	rently w	th Shipalt 0	177 CDS	console	upgrade. As	sets bei	ng remove	ed with t	he instal	lation of	OL-405	are red	quired to	satisty ha	ardware		
		of Shipalt 0177.																		
DEVELOPMENT STA	ATUS/MAJOR DEVELOPM	IENT MILESTONES															TO	TO		
			FY 96 8														COMP		TOTAL	
			QTY PRIOR	QTY	FY 97	QTY F	Y 98 Q	TY FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (II	N MILLIONS)																			
RDT&E																			0	0.0
PROCUREMENT																			11	0.8
QUANTITY																			0	0.0
INSTALLATION KIT	TQ																		0	0.0
	TS NONRECURRING																		0	0.0
	15 NONRECURRING		7 0 400	0	0.440	0 0	4.40													
EQUIPMENT	DECURRING		7 0.480	2	0.142	2 0	.146												11	8.0
EQUIPMENT NONE																			0	0.0
ENGINEERING CH	IANGE ORDERS																		0	0.0
DATA																			0	0.0
TRAINING EQUIPM																			0	0.0
SUPPORT EQUIPM	MENT																		0	0.0
OTHER																			0	0.0
INTERIM CONTRA	CTOR SUPPORT																		0	0.0
INSTALLATION OF I	HARDWARE																			
INCOMEDITION OF T	TIME WAILE																			
FY96 EQUIPMENT			2 0.078	5	0.116														7	0.19
FY97 EQUIPMENT						2 0	.070												2	0.07
FY98 EQUIPMENT								1 0.023	1	0.023									2	0.05
FY99 EQUIPMENT	•																		0	0.00
FY00 EQUIPMENT	-																		0	0.00
FY01 EQUIPMENT	•																		0	0.00
FY02 EQUIPMENT	•																			
FY03 EQUIPMENT																				
TO COMPLETE																			0	0.00
																			-	
TOTAL INSTALLATION	ON COST		0.078		0.116	0	.070	0.023		0.023		0.000		0.000		0.000		0.000	11	0.3
TOTAL PROCUREM			0.480		0.142		.146	0.000		0.000		0.000		0.000		0.000		0.000		0.8
	IENT COST																			
TOTAL COST			0.558		0.258	0	.216	0.023		0.023		0.000		0.000		0.000		0.000		1.1
METHOD OF IMPLE	MENTATION: INDUSTRIA	L FACILITY			Al	DMINIST	RATIVE I	LEADTIME:	2 mos			PRODU	CTION	EADTIN	1E: 9 i	nos				
CONTRACT DATE:			AR: Apr-96		С	URRENT	YEAR: /	Apr-97	BUDGE	T YEAR:	Apr-98			BUDGE	T YEAI	R 2:				
PRODUCTION DELI	IVER DATE:		AR: Jan-97				YEAR: .			T YEAR:				BUDGE						
INSTALLATION SCH						_														
	INPUT =====>	FY96	FY97		FY98		Y99	FY00		FY01	_	FY02		FY03		TC	-			
		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1, 2	2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3,	4	TOTAL		
																		11	TOTAL	
	FY 96 & Prior	00,01,01,00	01,01,02,0															7		
	FY 97			0	0,02,00,00													2		
	FY 98					00,0	1,00,00	01,00,00,0	00									2		
	FY 99 & Out																	0		
	OUTPUT ====>	FY96	FY97		FY98	F	Y99	FY00		FY01		FY02		FY03		TC				
		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3,	4	TOTAL		
											_						_	11	TOTAL	
	FY 96 & Prior	00,00,01,00	01,00,00,0	01 0	0,00,02,00	00.0	2,00,00											7		
	FY 97	, , , 0 0	,,,		0,00,00,02	22,0	, ,											2		
	FY 98				.,,,	00.0	1,00,00	00,00,01,0	00									2		
	FY 99 & Out					00,0	.,00,00	00,00,01,0										0		
	50 a Out																	Ü		P-3A

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED P3A				JAL MODIFI											DATE:	Februar	y 1997	
MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION:	OTHER NAV/AN/KSC AN/KSQ-1 The AN/KSQ-1 integra	ates existing de	velopment	into a system	n which wi												(OTH)	
	off-shore ranges. The systems. The project													navigation an	d commu	nications		
DEVELOPMENT STATUS/MAJOR DI			FY 96 &	,	,			,			,				TO COMP	TO COMP	TOTAL	TOTAL
		QTY	PRIOR	QTY FY	97 QT\	/ FY 98	QTY	FY 99	QTY	FY 00 QTY	/ FY 01	QTY	FY 02 C	QTY FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																	0 VAR	0.0 2.9
<u>PROCUREMENT</u> QUANTITY																	0	0.0
INSTALLATION KITS																	0	0.0
INSTALLATION KITS NONRECURE	RING																0	0.0
EQUIPMENT		62*	2.892														VAR	2.9
EQUIPMENT NONRECURRING																	0	0.0
ENGINEERING CHANGE ORDERS DATA																	0	0.0
TRAINING EQUIPMENT																	0	0.0
SUPPORT EQUIPMENT																	0	0.0
OTHER																	0	0.0
INTERIM CONTRACTOR SUPPORT	Τ																0	0.0
NSTALLATION OF HARDWARE																		
FY96 EQUIPMENT & PRIOR		62*	0.812														VAR	0.81
FY97 EQUIPMENT																	0	0.00
FY98 EQUIPMENT FY99 EQUIPMENT																	0	0.00
FY00 EQUIPMENT																	0	0.00
FY01 EQUIPMENT																	0	0.00
FY02 EQUIPMENT																	0	0.00
FY03 EQUIPMENT																	0	0.00
TO COMPLETE			0.040	0.00	20	0.000		0.000		0.000	0.000		0.000	0.000				0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST			0.812 2.892	0.00		0.000		0.000		0.000	0.000		0.000	0.000		0.000		0.8 2.9
TOTAL COST			3.704	0.00		0.000		0.000		0.000	0.000		0.000	0.000		0.000		3.7
METHOD OF IMPLEMENTATION: A	IT				ADM	INISTRATI	VE LEA	ADTIME:	4 mos		PRODU	CTION	LEADTIME	: 8 mos				
CONTRACT DATE:		PRIOR YEAR:				RENT YEAR				T YEAR:			BUDGET					
PRODUCTION DELIVER DATE:		PRIOR YEAR:	Nov-96		CURI	RENT YEA	R:		BUDGE	T YEAR:			BUDGET	YEAR 2:				
INSTALLATION SCHEDULE:																		
INPUT =====		FY96	FY97	FYS		FY99		FY00		FY01	FY02	_	FY03	TC	_			
		1, 2, 3, 4	1, 2, 3, 4	1, 2,	3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 3,	4	TOTAL		
FY 96 & Prior																		
FY 97																		
FY 98																		
FY 99																		
FY 00 FY 01																		
FY 02 & Out																		
OUTPUT ====	=>	FY96	FY97	FYS	98	FY99		FY00		FY01	FY02		FY03	TC				
		1, 2, 3, 4	1, 2, 3, 4	1, 2,	3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3,	4	TOTAL		
FY 96 & Prior																		
FY 97																		
FY 98 FY 99																		
FY 99 FY 00																		
FY 01																		
FY 02 & Out																		
	. (OTV 00) = : - : - :	MANUTES A /		TEDO (25-1							4 N D 2 2 2 2			/4 DIO::5:				
NOTE: ITEMS PROCURED: GPSIL CONTRACT AND DELIVERY			ı y 4), PRIN	HERS (QTY	4), AND	MISC INST.	ALLAT	ION MA	ERIAL	I.E. CABLES	AND CON	NECTO	JKS (QTY \	various)				P-3A
						ITEM NO			PAGE: 1					01.400	IFICATIO		A O O I E I E E	

CLASSIFICATION: UNCLASSIFIED INDIVIDUAL MODIFICATION DATE: February 1997 MODIFICATION TITLE: OTHER NAV/Position Location Reporting System (PLRS) GW034 MODELS OF SYSTEM AFFECTED: PLRS DESCRIPTION/JUSTIFICATION: The PLRS provides jam resistant network of UHF radio transceivers that automatically exchange pre-formatted data messages enabling the position of all units in the PLRS radio network to be rapidly determined. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TO TO FY 96 & COMP COMP TOTAL TOTAL QTY PRIOR QTY FY 97 QTY FY 98 QTY FY 99 QTY FY 00 QTY FY 01 QTY FY 02 QTY FY 03 COST QTY COST QTY FINANCIAL PLAN (IN MILLIONS) RDT&E 0 0.0 **PROCUREMENT** VAR 3.4 QUANTITY 0 0.0 INSTALLATION KITS 0 0.0 INSTALLATION KITS NONRECURRING 0 0.0 **EQUIPMENT** 100\* 3.447 VAR 3.4 EQUIPMENT NONRECURRING 0 0.0 **ENGINEERING CHANGE ORDERS** 0 0.0 DATA 0 0.0 TRAINING EQUIPMENT 0 0.0 SUPPORT EQUIPMENT 0 0.0 OTHER 0 0.0 INTERIM CONTRACTOR SUPPORT 0 0.0 **INSTALLATION OF HARDWARE** FY96 EQUIPMENT & PRIOR 100\* 4.082 VAR 4.08 **FY97 EQUIPMENT** 0 0.00 **FY98 EQUIPMENT** 0 0.00 **FY99 EQUIPMENT** 0 0.00 FY00 EQUIPMENT 0 0.00 **FY01 EQUIPMENT** 0.00 0 FY02 EQUIPMENT 0 0.00 **FY03 EQUIPMENT** 0 0.00 TO COMPLETE TOTAL INSTALLATION COST 0.000 0.000 0.000 4.082 0.000 0.000 0.000 0.000 4.1 TOTAL PROCUREMENT COST 3.447 0.000 0.000 0.000 0.000 0.000 0.000 0.000 3.4 0.000 TOTAL COST 7.529 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 7.5 METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 6 mos PRODUCTION LEADTIME: VAR CONTRACT DATE: PRIOR YEAR: May-96 CURRENT YEAR: BUDGET YEAR: **BUDGET YEAR 2:** PRODUCTION DELIVER DATE: PRIOR YEAR: Sep-96 CURRENT YEAR: BUDGET YEAR: BUDGET YEAR 2: NSTALLATION SCHEDULE: INPUT =====> FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL FY 96 & Prior FY 97 FY 98 FY 99 FY 00 FY 01 and Out OUTPUT =====> FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC

\*NOTE: ITEMS PROCURED: PLRS ANTENNA (QTY 100) AND INSTALLATION MATERIAL I.E. CABLES AND CONNECTORS (QTY VARIOUS)
PRIOR YEAR CONTRACT AND DELIVERY DATA REFER TO UROS ONLY. CURRENT YEAR REFERS TO MISCELLANEOUS ITEMS.

1, 2, 3, 4

FY 96 & Prior FY 97 FY 98 FY 99 FY 00 FY 01 and Out 1, 2, 3, 4

1, 2, 3, 4

CLASSIFICATION: UNCLASSIFIED

P-3A

TOTAL

1, 2, 3, 4

1, 2, 3, 4

1, 2, 3, 4

1, 2, 3, 4

1, 2, 3, 4

1, 2, 3, 4

CLASSIFICATION: UNCLASSIFI P3A MODIFICATION TITLE:	OTHER NAV/Ring Laser Gy		INDIVIDU	AL MC		ON GW035												DATE:	February	/ 1997	
MODIFICATION TITLE: MODELS OF SYSTEM AFFECTE DESCRIPTION/JUSTIFICATION:	[ AN/WSN-3, AN/WSN-5 and	CVNS	ed at replac	ina exi				ms cur	rently inst	alled in	various sur	face an	d sub-surfac	ce com	batants.						
22001 1101.000011071.11011.	The rang Easter Syre program		ou ut ropius	g 07	oung more	ai ria rig	anon oyoto		romay and	uu	74.1040 041	race an	a oub ourie	00	batarito.						
DEVELOPMENT STATUS/MAJOI	R DEVELOPMENT MILESTO	NES:																TO	TO		
		QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP QTY	COMP COST	TOTAL QTY	TOTAL COST
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																				0	0.0
<u>PROCUREMENT</u> QUANTITY																				169 0	159.5 0.0
INSTALLATION KITS																				0	0.0
INSTALLATION KITS NONRECU	JRRING																			0	0.0
EQUIPMENT		14*	16.068	13	10.980	9	12.339	32	25.374	29	25.443	25	22.068	19	16.722	0	0.000	28	30.502	169	159.5
EQUIPMENT NONRECURRING																				0	0.0
ENGINEERING CHANGE ORDE	RS																			0	0.0
DATA TRAINING EQUIPMENT																				0	0.0
SUPPORT EQUIPMENT																				0	0.0
OTHER																				0	0.0
INTERIM CONTRACTOR SUPP	ORT																			0	0.0
INSTALLATION OF HARDWARE																					
FY96 EQUIPMENT & PRIOR				4	1.173	8	3.051													12	4.22
FY97 EQUIPMENT								7	2.959	6	2.752									13	5.71
FY98 EQUIPMENT FY99 EQUIPMENT										9	4.370	32	12.590							9 32	4.37 12.59
FY00 EQUIPMENT												32	12.590	29	11.581					29	11.58
FY01 EQUIPMENT														25	11.501	25	11.103			25	11.10
FY02 EQUIPMENT																		19	7.006	19	7.01
FY03 EQUIPMENT																				0	0.00
TO COMPLETE																		28	10.926	28	10.93
TOTAL INSTALLATION COST			0.000		1.173		3.051		2.959		7.122		12.590		11.581		11.103		7.006	167	67.5
TOTAL PROCUREMENT COST			16.068		10.980		12.339		25.374		25.443		22.068		16.722		0.000		30.502		159.5
TOTAL COST			16.068		12.153		15.390		28.333		32.565		34.658		28.303		11.103		37.508		227.0
METHOD OF IMPLEMENTATION							STRATIVE						PRODUC	TION L	EADTIME						
CONTRACT DATE: PRODUCTION DELIVER DATE:		R YEAR: R YEAR:					NT YEAR: NT YEAR:				ET YEAR: ET YEAR:						2: Mar-99 2: Sep-01				
INSTALLATION SCHEDULE:																					
INPUT ==			FY97		FY98		FY99		FY00		FY01	_	FY02		FY03		TC		TOT41		
	1, 2, 3	3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL	TOTAL	
FY 96 & F	Prior		00,04,00,00		8,00,00,00	1													167 12	TOTAL	
FY 97	1101	,	30,04,00,00		0,00,00,00		7,00,00,00	) (	06,00,00,0	0									13		
FY 98							,==,00,00		0,00,00,00										9		
FY 99											32.00.00.00	)							32		
FY 00													29.00.00.00						29		
FY 01															25,00,00,0		10.00.00	•	25		
FY 02 & 0	Jut																19,00,00,2	g	47		
OUTPUT			FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
	1, 2, 3	3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL	TOT::	
FY 96 & F	Prior			0	0,00,00,0	1	00,00,00,0	าล											167 12	TOTAL	
FY 97					. 5,55,55,00,0		50,00,00,0		0,00,00,0	7	00,00,00,00	6							13		
FY 98									, , , .		00,00,00,00								9		
FY 99													00,00,00,32	2					32		
FY 00															00,00,00,2				29		
FY 01																	00,00,00,2		25		
FY 02 & C	Out															(	00,00,00,4	7	47		
* FY96 & PRIOR: 2 SHIPSETS V	WILL BE USED AT THE LBT	F AND D	O NOT RE	QUIRE	INSTALL	DOLL	ARS. FIVE	SHIP	SETS WE	RE PR	OCURED V	WITH F	/94/95 AN/	WSN-2	/5 FIELD (	CHANG	E DOLLA	RS (GW	(029)		P-3A

## CLASSIFICATION UNCLASSIFIED

		BUDGET ITE	M JUSTIFICA	TION SHEE	T		DATE:	
		P-40						
							<b>FEBRUARY</b>	′ 1997
APPROPRIATIO	N/BUDGET ACTI\	/ITY		P-1 ITEM NOMEN	ICLATURE			
OTHER PROCUE	REMENT NAVY B	A 1: SHIPS SUF	PPORT EQUIPME	NT	UNDERWAY	REPLENISI	HMENT EQUI	PMENT (81GO)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$11.7	\$11.6	\$8.2	\$8.7	\$10.2	\$8.3	\$3.4	\$3.9

This line item encompasses equipment required to provide the Fleet with a reliable Stream Underway Replenishment capability. The equipment is used to transfer ammunition, missiles, fuel and cargo by alongside replenishment techniques, cranes and elevators. This new equipment is essential to the Fleet to: (a) enhance personnel equipment safety; (b) reduce maintenance costs; (c) lengthen intervals between equipment failures; (d) allow heavylift transfer (i.e., aircraft engines) and (e) shorten along-side time and, thereby reducing ship vulnerability to enemy action. Installation costs are included. Some of the significant items included are as follows:

STREAM EQUIPMENT MODS - (G0011) - This item will support the replacement of Stream Equipment components by mods kits to correct deficiencies. This work will be performed by AIT teams or SHIPALTS. Mods include Sliding Block Ship Clutches, Limit Switches, NATO kits, and One Man Control Station.

AOE STREAM MODERNIZATION (G0043) - This item replaces 25 year old, unreliable STREAM systems with modern, reliable Navy Standard STREAM Systems on AOE 1 Class. SHIPALTS AOE-761K, 762K and 764K apply.

PRODUCTION ENGINEERING - (G0830) - The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts List (APL's); Engineering in support of final design reviews. This work can be accomplished by NAVSSES as the In Service Engineering Agent, other Naval activities or contractors as appropriate.

EQUIPMENT INSTALLATION - (G05IN) - Funding is for the installation of equipment including Fleet Modernization Program installation of training equipment and installation of equipment in other shore facilities.

G0DSA - DESIGN SERVICES ALLOCATION - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 and out.

# CLASSIFICATION UNCLASSIFIED

BUDGET ITEM JUSTIFICATION P-40A	ON SHEET	DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOME	NCLATURE
THER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT	UNDERWAY REPL	ENISHMENT EQUIPMENT
PRODUCTION ENGINEERING - (G0830) - The review and approval of any production separate development of this documentation to include, Technical Manuals, PMS, Leve Technical Documentation (PTD) Program Support Data (PSD) and Allowance Parts List design reviews. This work can be accomplished by NAVSSES as the In Service Engin contractors as appropriate.	el III production drawings, Prov sts (APL's); Engineering in sup	visioning oport of final

P-1 SHOPPING LIST ITEM NO. PAGE NO.

**CLASSIFICATION:** 

#### **UNCLASSIFIED** CLASSIFICATION:

WEAPON S	SYSTEM COST ANALYSIS	PROGRAM (	COST DD	AKDOWN					DATE:	
EXHIBIT (F	-3)	FROGRAM	COSTBRE	ANDOWN					FEBRUARY	1997
APPROPR	RIATION/BUDGET ACTIVITY			P-1 ITEM NOMEN	CLATUR	E/SUBHEAD				
ED DDOCIIE	REMENT NAVY BA 1: SHIPS SUPP	OPT EQUID	MENT	IINDEDWAY	DEDIEN	IISHMENT EQUIP	MENT 016	C/0740		
IN PROCUE	LEMENT NAVI BA I. SHIFS SUFF	OK I EQUIF	WIEN I			OST IN THOUSA				
COST		IDENT		FY 1996		FY 1997		FY 1998		FY 1999
CODE	ELEMENT OF COST	CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS
			-							
	<u>N85</u>									
G0011	STREAM EQUIPMENT MODS						2	360		
G0830	PRODUCTION ENGINEERING							60		
	SUBTOTAL N85 <u>N86</u>							420		
G0011	STREAM EQUIPMENT MODS		11	1,887			10	999	23	1,100
G0043	AOE STREAM MODERNIZATION	Α					2	3,600		
G0830	PRODUCTION ENGINEERING	Α		280				690		135
	SUBTOTAL N86			2,167				5,289		1,235
	<u>N88</u>									
G0011	STREAM EQUIPMENT MODS				9	281			12	142
	SUBTOTAL N88					281				142
	TOTAL EQUIPMENT			2,167		281		5,709		1377
G05IN	INSTALLATION *			* 9,569		11,331		1,950		6,389
G0DSA	DESIGN SERVICES ALLOCATION	N		* 9,569		11,331		530 2,480		936 7,325
	GRAND TOTAL			11,736		11,612		8,189		8,702
	n representation AN/SDS 49 Dec	11	<u> </u>	PINGLIST			= 1.0.0	D E Waanan Syat		

<sup>\* 1.9</sup> million reprogrammed to AN/SPS-48 Radar Install P-1 SHOPPING LIST on CVN 73 in FY 96. Mine Warfare addition in FY 99.

ITEM NO.

PAGE NO.

Exhibit P-5 Weapon System Cost Analysis CLASSIFICATION:

#### UNCLASSIFIED

	BUDGET PROCURE	MENT HIST	ORY AND PLA	ANNING					A. DATE	
		P-5A							<b>FEBRUARY</b>	1997
B. APPROPRIATION/BUDGET ACT	IVITY			C. P-1 IT	EM NOME	NCLATURI			•	
OTHER PROCURMENT NAVY BA 1	: SHIPS SUPPORT EQUIPMENT			UNDERV	VAY REPL	ENISHMEN	IT EQUIPN	<b>MENT</b>	81GO/0740	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	T CONTRACTEI BY		DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABL
STREAM EQUIPMENT MODS G0011										
FY 1996 FY 1996 FY 1996 FY 1996 FY 1997 FY 1998 FY 1998 FY 1998 FY 1999	NSWC PHILA, PA NSWC PORT HUENEME, CA NSWC PHILA, PA NSWC CRANE, IN NSWC PHILA, PA NSWC PHILA, PA UNKNOWN NSWC PHILA, PA NSWC PORT HUENEME, CA NSWC, PHILADELPHIA, PA	PO PO WR WR WR RCP WR WR	NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NSWC, PHD NAVSEA NAVSEA	Feb-96 Feb-96 Apr-96 Mar-96 Dec-96 Apr-98 Dec-97 Dec-97 Dec-98	Sep-96 Sep-96 Sep-96 Sep-96 Sep-97 Dec-99 Sep-98 Sep-98 Sep-99	3 1 1 3 3 9 2 5 5 35	61,666 450,000 48,000 286,000 115,333 31,222 180,000 99,900 99,900 35,485	YES	NO NO NO NO NO NO NO NO	
AOE STREAM MODERNIZATION G0043										
FY 1998	NSWC PORT HUENEME, CA	RCP	NAVSEA	Jan-98	Feb-99	2	1,800,000	YES	NO	
D. DEMARKS										
D. REMARKS										

DD Form 2446-1, JUL 87

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10 4 UNCLASSIFIED

														1				1		CLASSIFIC	ATION: L	JNCLASSI	FIED	
																				02/100/11/10	,,,,,,,,,,			
	ATION: U	INCLASSIF	IED																					
3A																					FEBRUA	RY 1997		
			YCRANES																					
					LENISHME																			
ESCRIPTI	ION/JUST	IFICATION	: Crane Im	provement	t - (G0030) -	These crar	es are for	installation on dest	royer tender	rs and floating	drydocks.													
PEVELOPM	IENI SIA	TUS/MAJC	DR DEVELO	PMENI MI	LESTONES	:	m./aa														то	TO COMP		
							FY96							=1/.00		=======================================		=>/ ==		=1/ 00	COMP		TOTAL	TOTAL
						QTY	PRIOR	QTY	FY 97	QTY F	Y 98 C	TY FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
INANCIAL	. PLAN (IN	MILLIONS	<u>s) P-5</u>																					
RDT&E PROCUREI	MENT				1			1			-		1	1	1	1		1					2	0.0
						2			1			- 1		1				1						0.0
QUANTITY		_	1		1			1	1		- 1	1	1	1	1	1		1					-	
INSTALLA																								
		S NONREC	URRING																					
EQUIPMEN							1.5																0	1.5
		ECURRING						1					_											
	RING CHA	NGE ORDI	ERS																					
DATA													,											
TRAINING																								
SUPPORT	EQUIPME	ENT																						
OTHER																								
INTERIM C	CONTRAC	TOR SUPP	ORT					'															0	0.0
NSTALLAT	TION OF H	IARDWAR																						
FY96 & PR					1	2	0.4				,		1	1	1	1		1					2	0.4
FY97 EQUI			1		1		0.1			1			1	1	1	1		1						0.0
FY98 EQUI		1	1		1	1		1	1					1	1	1		1						0.0
FY99 EQUI		1	1		1	1		1	1 1		- 1	1	T	1	1	1		1					. 0	0.0
FY 00 EQU		1	1		1				1				1	1	I	1		1	1	L			. 0	0.0
FY01 EQUI		1	1		1			1	1 1	1	- 1	1	1	1	1	1		1					. 0	
					1				1				1		1	1								0.0
FY 02 EQU			1					1		1			1	1	1	1							. 0	0.0
FY 03 EQU									1					1									. 0	0.0
TO COMPL	LETE												1		1								. 0	0.0
																							. 0	0.0
TOTAL INST	TALLATIC	ON COST				2	0.4				0	0		0			0			0			0	0.4
TOTAL PRO	CUREME	ENT COST				0.0	1.5		0.0		0.0	0.0		0.0			0.0			0.0			0	1.5
TOTAL COS	ST					0.0	1.9		0.0		0.0	0.0		0.0			0.0			0.0			0	1.9
METHOD O		MENTATION	N:		AIT			ADMINISTRATIVE	LEADTIME:	6				PRODUC	TION LEAD	OTIME: 24								
CONTRACT					PRIOR YE			CURRENT YEAR:				GET YEAR:				BUDGET Y								
PRODUCTION	ON DELIV	/ER DATE:			PRIOR YE	AR: Mar-94		CURRENT YEAR:			BUI	GET YEAR:	1			BUDGET Y	EAR 2:							
NOTALLA	TION OC.	FDIII F	1	1	1							1	1	1		1		1					l	I
NSTALLAT	ION SCHI				EVAC & PRI	<b>D</b>	EV07	1	EVOS		voo	EVAA	1	EVO	1	EVO2		EVO2		TC			1	
		INPUT ==:	====>	· '	FY96 & PRI	UK	FY97 1, 2, 3, 4		FY98 1, 2, 3, 4		Y99	1, 2, 3, 4	_	FY01 1, 2, 3, 4	J	FY02 1, 2, 3, 4		FY03 1, 2, 3, 4	1	<u>TC</u>		TOTAL	1	
1		1	1		1, 2, 3, 4	1	1, 2, 3, 4	-	1, 2, 3, 4	1,.	2, 3, 4	1, 2, 3, 4	<del>-</del>	1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4		TOTAL	1	
		FY96 & PI	DIOD		2			1					+		-	-						2		
		1 1 90 & PI	NOR					-	1				+	+	1	1		-						
1		1	1	1	1			1	1	1		1	1	1	1	1	_	1					1	1
1		OUTPUT :	====>		FY96 & PRIO	OR .	FY97		FY98		Y99	FY00	1	FY01		FY02		FY03		TC				
					1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL	1	
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		FY96 & PI	RIOR		2				1				1									2		
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		1	1		1			1	I I EIVI	10	PAC	,_ ;	1		1			1		OLMODIFIC	ATION: U	,,,olassi	IED	

CLASSIFICATION: UNCLASSIFIED		INDIVIDUAL I	MODIFICAT	TION															FEBRUARY 1997	
MODIFICATION TITLE: STREAM UNREP MODS EQUIPMEN	NT G0011	INDIVIDUAL	MODIFICAT	IION															FEBRUARI 1991	
MODELS OF SYSTEM AFFECTED: UNDERWAY REPLENIS	HMENT SYSTEM (AIT)																			
DESCRIPTION/JUSTIFICATION: Various equipment such as	s Stream Equip Mod, and	Sliding Block	k Mods (AlT	r)																
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTO	ONES:																TO	то		
	OTY	FY 96 & PRIOR	QTY	EV 07	OTV	FY 98	OTV	EV 00	OTV	EV 00	QTY	EV 04	QTY	FY 02	QTY	EV 00	COMP	COMP	TOTAL QTY	TOTAL
FINANCIAL PLAN (IN MILLIONS) P-5	QIT	PRIOR	QIT	F1 9/	QIT	F1 96	QIT	FT 99	QIT	FT 00	QIT	FT UI	QIT	F1 02	QIT	FY 03	QIT	COST	QIT	COST
FINANCIAL FLAN (IN MILLIONS) F-3																				
RDT&E				1	1	'														
PROCUREMENT		1	*		1	1									l	1			0	0.0
QUANTITY	42		9		12		35				6		1		1				106	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT		1.9		0.3		1.4		1.2		0		0.6		0.1		0.1			0	5.6
EQUIPMENT NONRECURRING																			0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT	1			1		1				1	1			1	ı	1			0	0.0
OTHER		I																	0	0.0
INTERIM CONTRACTOR SUPPORT			-									-							0	0.0
INSTALLATION OF HARDWARE						1										+				
The state of the s						1										+				
FY96 EQUIPMENT & PRIOR	2	1.6	28	2.7	12	2.0				1	1	1		1	ı	1			42	6.3
FY97 EQUIPMENT																			0	0.0
FY98 EQUIPMENT							12	1.9											12	1.9
FY99 EQUIPMENT									30	3.1	5	2.5							35	5.6
FY00 EQUIPMENT																			0	0.0
FY01 EQUIPMENT													6	0.7					6	0.7
FY02 EQUIPMENT FY03 EQUIPMENT		I			1	1				1	1			1	1	1.8	- 1	1.8	1	1.8 1.8
TO COMPLETE		1				1					1	- 1			ļ.			1.0		1.0
TO COMIT LETE	1	1												I		1				
		1	T																1	
TOTAL INSTALLATION COST	2	1.6	28	2.7	12	2.0	12	1.9	30	3.1	5	2.5	6	0.7	1	1.8		1.8	97.0	18.1
	2		28		12		12		30		5		6		1				97.0	
TOTAL PROCUREMENT COST	2	1.9	28	0.3	12	1.4	12	1.2	30	0.0	5	0.6	6	0.1	1	0.1		0.0	97.0	5.6
	2		28		12		12		30		5		6		1				97.0	
TOTAL PROCUREMENT COST	2	1.9	28	0.3		1.4		1.2	30	0.0	5	0.6 3.1	6	0.1	1	0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION: VAR CONTRACT DATE:	PRIOR YEAR:	1.9	28	0.3	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR:		1.2 3.1 VAR	BUDGET Y	0.0 3.1 EAR:	5	0.6 3.1	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2:	1	0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION: VAR		1.9	28	0.3	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR:		1.2 3.1 VAR		0.0 3.1 EAR:	5	0.6 3.1	TION LEADT	0.1 0.8 IME: VAR	1	0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE:	PRIOR YEAR:	1.9	28	0.3	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR:		1.2 3.1 VAR	BUDGET Y	0.0 3.1 EAR:	5	0.6 3.1	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2:	1	0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE:	PRIOR YEAR:	1.9	28	0.3	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR: YEAR:		1.2 3.1 VAR VAR	BUDGET Y	0.0 3.1 EAR:	5	0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2:		0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE:	PRIOR YEAR:	1.9 3.5	28	0.3 3.0	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR: YEAR:		1.2 3.1 VAR VAR	BUDGET Y	0.0 3.1 EAR: EAR:		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03	0.1 1.9		0.0 1.8	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE:	PRIOR YEAR:	1.9	28	0.3	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR: YEAR:		1.2 3.1 VAR VAR	BUDGET Y	0.0 3.1 EAR:		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2:		0.1		0.0	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE:	PRIOR YEAR:	1.9 3.5	28	0.3 3.0	ADMINISTI CURRENT	1.4 3.4 RATIVE LEAD YEAR: YEAR:		1.2 3.1 VAR VAR	BUDGET Y	0.0 3.1 EAR: EAR:		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03	0.1 1.9		0.0 1.8	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR:		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03	0.1 1.9		1.8 TOTAL	97.0	5.6
TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR	BUDGET Y	0.0 3.1 EAR: EAR: 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03	0.1 1.9		1.8  TOTAL  42 0 12	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR:		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03	0.1 1.9		0.0 1.8 TOTAL 42 0 12 35	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 90	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03	0.1 1.9		0.0 1.8 TOTAL 42 0 12 35 0	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 90 FY 01	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02	FY03 1, 2, 3, 4	0.1 1.9		0.0 1.8 TOTAL 42 0 12 35 0 6	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03	0.1 1.9 TC 1, 2, 3, 4		1.8  TOTAL  42 0 12 35 0 6 1	97.0	5.6
METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4	0.1 1.9		1.8  TOTAL  42 0 12 35 0 6 1 1	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 01 TC	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4	28	0.3 3.0 FY97 1, 2, 3, 4	ADMINISTI CURRENT	1.4 3.4 YEAR: YEAR: YEAR: 1, 2, 3, 4		1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: I FY00 1, 2, 3, 4		0.6 3.1 PRODUCT	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4	0.1 1.9 TC 1, 2, 3, 4		1.8  TOTAL  42 0 12 35 0 6 1	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1,2,3,4	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC. OUTPUT =====>  FY 96	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 3.4 YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT FY01 1, 2, 3, 4	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2:  FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL	97.0	5.6
METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT FY01 1, 2, 3, 4	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2:  FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL 42 0	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97 FY 98	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2:  FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL 42 0 0 12	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97 FY 98 FY 99 FY 99 FY 99 FY 99	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT FY01 1, 2, 3, 4	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2:  FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 12 35 35	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT ====>  FY 96 FY 97 FY 98 FY 99 FY 97 FY 98 FY 99 FY 97 FY 98 FY 99 FY 99 FY 00	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 12 35 0 0 0 97	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97 FY 98 FY 99 FY 90 FY 91	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8  IME: VAR BUDGET YEAR 2:  FY02 1, 2, 3, 4	FY03 1, 2, 3, 4  1  1  FY03 1, 2, 3, 4	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 0 12 35 0 0 6	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97 FY 98 FY 99 FY 90 FY 97 FY 98 FY 99 FY 90	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4 1 1	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 12 35 0 0 0 97	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT ====>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 97 FY 98 FY 99 FY 00 FY 97 FY 97 FY 98 FY 99 FY 90 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 00 FY 01 FY 02 FY 03 FY 00 FY 01 FY 02 FY 03	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4  1  1  FY03 1, 2, 3, 4	0.1 1.9 TC 1,2,3,4		1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 12 35 0 6 1 1 0 17 10 17 10 17 10 17 10 18 18 18 18 18 18 18 18 18 18 18 18 18	97.0	5.6
TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: VAR CONTRACT DATE: PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE: INPUT ======>  FY 96 FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 FY 97 FY 98 FY 99 FY 90 FY 97 FY 98 FY 99 FY 90	PRIOR YEAR:	1.9 3.5 FY96 1, 2, 3, 4		0.3 3.0 FY97 1, 2, 3, 4 28	ADMINISTI	1.4 3.4 RATIVE LEAD YEAR: YEAR: FY98 1, 2, 3, 4	TIME: VAR	1.2 3.1 VAR VAR 1, 2, 3, 4 12 FY99 1, 2, 3, 4	BUDGET Y	0.0 3.1 EAR: EAR: FY00 1, 2, 3, 4		0.6 3.1 PRODUCT 1, 2, 3, 4 5	TION LEADT	0.1 0.8 IME: VAR BUDGET YEAR 2: BUDGET YEAR 2: FY02 1, 2, 3, 4	FY03 1, 2, 3, 4  1  1  FY03 1, 2, 3, 4	0.1 1.9 TC 1,2,3,4		0.0  1.8  TOTAL  42 0 12 35 0 6 1 1 0 97 TOTAL  42 0 12 35 1 1 0 97 TOTAL		5.6

NORDICE NORTH NEW PRINT NEW   NORTH NEW PRINT NEW PRIN	CLASSIFICATION: UNC	ASSIEIED																						
COMPACING THILE - UNDOCKNAY REPLANDMENT AT   CONTROL OF THE PROPERTY CONTROL		LASSIFIED				INDIVIDITAL	MODIFICA	TION													FERRIIARY	1997		
COURT   PROPERTY   P		IINDERWAY PE	DI ENISHMEN	NT AIT		III		11014													LDIOAKI	1337		
## SECRETAL CONTRIBUTION OF THE STORY OF THE					FLEV (GOO	127)																		
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Pipe			OPMENT MIL	ESTONES:																	TO	TO		
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DIZECT   0.00					QII	PRIOR	QII	F1 97	QII	F1 90	QII	F1 99	QII	FTUU	QIT	FIUI	QII	F1 U2	QII	FIUS	QII	COST	QII	CUSI
SECULIFIENT   14	FINANCIAL PLAN (IN MI	LLIONS)																						
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FYOS EQUIPMENT PRIOR    2   0.5   12   3.6			1						ı						1		1						ı	
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FY98 EQUIPMENT FY99 EQUIPMENT FY90 EQUIPMENT FY90 EQUIPMENT FY90 EQUIPMENT FY90 EQUIPMENT TO COMPLETE		RIOR			2	0.5	12	3.6															14	
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2.0   0.0																							0	
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OTAL COST  2.5 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0																								
ADMINISTRATIVE LEADTIME: 9  ADMINISTRATIVE LEADTIME: 9  PRODUCTION LEADTIME: 15  CONTRACT DATE: PRIOR YEAR: VAR CURRENT YEAR: BUDGET YEAR: 1 BUDGET YEAR 2:  PRODUCTION DELIVER DATE: PRIOR YEAR: VAR CURRENT YEAR: BUDGET YEAR: 1 BUDGET YEAR 2:  NSTALLATION SCHEDULE:  NSTALLATION SCHEDULE:  FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC  1,2,3,4 1		COST																						
PRIOR YEAR:   VAR   CURRENT YEAR:   BUDGET YEAR:   1 BU	TOTAL COST					2.5		3.6		0.0		0.0		0.0		0.0		0.0				0.0	ı	6.1
PRIOR YEAR:   VAR   CURRENT YEAR:   BUDGET YEAR:   1 BU																								
PRODUCTION DELIVER DATE: PRIOR YEAR: VAR CURRENT YEAR: BUDGET YEAR: 1 BUDGET YEAR 2:		TATION: C			_						TIME: 9			1		PRODUC				1				
NSTALLATION SCHEDULE:    NPUT ======>   FY96			1												1	1							ı	
NPUT ======>   FY96	PRODUCTION DELIVER	DATE:		PRIOR YEA	AR:	VAR			CURRENT	EAR:			BUDGET Y	EAR:		1		BUDGET YE	EAR 2:					
NPUT ======>   FY96					1			1				1		1										1
1,2,3,4   1,2,	INSTALLATION SCHEDU														1	=>***								1
FY96 & PRIOR  2 12    OUTPUT =====>   FY96   FY97   FY98   FY99   FY00   FY01   FY02   FY03   TC     1,2,3,4   1,2,3		INPUT =====	=>		1				1						1									
OUTPUT =====>						1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL
OUTPUT =====>																								
1,2,3,4   1,2,		FY96 & PRIOR				2		12																14
1,2,3,4   1,2,		1							1														1	
FY96 & PRIOR 2 12 14  PRIOR YEAR COLUMN INDICATES EQUIPMENT PRIOR TO FISCAL YEAR 93  P-3A		OUTPUT ====	=>		l				1						1									
PRIOR YEAR COLUMN INDICATES EQUIPMENT PRIOR TO FISCAL YEAR 93 P-3A						1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL
PRIOR YEAR COLUMN INDICATES EQUIPMENT PRIOR TO FISCAL YEAR 93 P-3A																								
P-3A		FY96 & PRIOR				2				12														14
P-3A		1							1						1								1	
P-3A					l																			
	* PRIOR YEAR COLUMN	I INDICATES EQU	UIPMENT PRI	IOR TO FISCAL YEA	AR 93																			
																								P-3A
											ITEM	10	PAGE	7				CLASSIFICA	ATION: UN	ICLASSIFIED	)			

CLASSIFICATION: P3A	UNCLASSIF	IED																		FEBRUAR	V 1007	
	TLE: REPL S	PANWIRE WN WITH NAVY	STD																	FEBRUAR	1 1991	
MODELS OF SYSTE	EM AFFECTE	D: UNDERWAY REPLENIS	SHMENT SY																			
	STIFICATION	SPANWIRE WINCH (G001	0) - This it	em replac	es non-sta	ndard winch	beds with a standa	rd Navy ow	ned design	at 5 fueling a	t sanitar	y block sea	sending s	station in the	5 AO 177							
Class ships.		R DEVELOPMENT MILEST	ONEO																	то		
DEVELOPMENT ST	IAIUS/MAJO	R DEVELOPMENT MILES I	ONES:		FY96 &														TO COMP	COMP	TOTAL	TOTAL
				QTY	PRIOR	QTY	FY 97 QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (I	IN MILLIONS																					
RDT&E			· ·																		0	0.0
PROCUREMENT				5																	5	0.0
QUANTITY			1		ı		1						1								0	0.0
INSTALLATION KI										1										1	0	0.0
INSTALLATION KI EQUIPMENT	IIS NONREC	URRING	1		0.5	1	1	1		1			ı							1	0	0.0
EQUIPMENT NONI					0.5					I											0	0.5
ENGINEERING CH			1		I	1	I	1		1	- 1		ı	1					1	1	0	0.0 0.0
DATA	INITIOE ORDE	.no	- 1		1	1 1	1	1	1	· · · ·	-		I	1						I	0	0.0
TRAINING EQUIPM	MENT										1										0	0.0
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OTHER	1																				0	0.0
INTERIM CONTRA	ACTOR SUPP	ORT					· ·	1	1		-		1							1	0	0.0
INSTALLATION OF	HARDWARE																					
FY96 EQUIPMENT				5	0.8																5	0.8
FY97 EQUIPMENT																					0	0.0
FY98 EQUIPMENT					ı																0	0.0
FY99 EQUIPMENT																					0	0.0
FY 00 EQUIPMENT			1		ı		1						1								0	0.0
FY01 EQUIPMENT	F									1										1	0	0.0
TO COMPLETE	1		1		ı	1	1	1		1			ı							1	0	0.0
										I											0	0.0 0.0
			1		I	1	I	1		1	- 1		ı	1					1	1		0.0
TOTAL INSTALLAT	TION COST		- 1	5	0.8	1	0.0	0		0	- 1	0	l	0		0		0	1	0	5	0.8
TO TALE INCOMEDIA					0.0		0.0	1	1		1											0.0
TOTAL PROCUREN	MENT COST				0.5		0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.5
TOTAL COST		'			1.3		0.0	0.0		0.0	,	0.0		0.0		0.0		0.0		0.0		1.3
METHOD OF IMPLE							RATIVE LEADTIME:	9				PRODUC	CTION LEA			20 MONTHS	i					
CONTRACT DATE:			PRIOR YEA			CURRENT			BUDGET '				ı	BUDGET YE								
PRODUCTION DEL	IVER DATE:	F	PRIOR YEA	R: Apr-94	1	CURRENT	YEAR:		BUDGET '	YEAR:				BUDGET YE	AR 2:							
INSTALLATION SC	HEDULE:				I	1		1	1				1					1	1	1		
	INPUT ===	===>	FY96		FY97		FY98	FY99		FY00	1	FY01		FY02		FY03		TC				
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						-			-										•			
	FY 96 & P	RIOR	5																	5		
	,																					
	OUTPUT =		FY96		FY97		FY98	FY99		FY00		FY01		FY02		FY03		TC				
			1, 2, 3, 4		1, 2, 3, 4	, ,	1, 2, 3, 4	1, 2, 3, 4	1	1, 2, 3, 4	,	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
													l							l		
	FY 96 & P	RIOR	5			1	1	1	1	1										5		
	1					1		1											1	1		P-3A
							ITEM	PAGE										CLASSIFIC	CATION: U	NCLASSIFI		1 -JA
							10	8														

CLASSIFICATION:		UNCLASSI	EIED																						
P3A		UNCLASSI	FIED			INDIVIDUAL	MODIFICA	TION															FEBRUAR	V 1007	
MODIFICATION TITLE:	. CTDEAM CII	DING BLOC	V DDIVE	& CLUTCHE	e	INDIVIDUAL	LINODIIIOA	11014															LDKOAK	1 1331	
MODELS OF SYSTEM						3)						1													
DESCRIPTION/JUSTIFIC												-				-									
DEVELOPMENT STAT					transier ne	ads to improv	re oprational	salety and p	perrormance							-						то	то		
DEVELOPMENT STAT	US/MAJUR DEV	ELOPMEN	WILESTO	INES:		F1/00 0						-				-						_		TOTAL	TOT41
						FY96 &																COMP	COMP	TOTAL	TOTAL
					QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY02	QTY	FY03	COST	QTY	COST	QTY	COST
FINANCIAL PLAN (IN N	MILLIONS)																								
RDT&E																									
PROCUREMENT																								0	0.0
QUANTITY					15																			15	0.0
INSTALLATION KITS																								0	0.0
INSTALLATION KITS	NONRECURRIN	IG																						0	0.0
EQUIPMENT						2.9						1					1		1					0	2.9
<b>EQUIPMENT NONRE</b>	CURRING																							0	0.0
ENGINEERING CHAN		1		1 1		1 1		1	1			1	1			1		1				1	1	0	0.0
DATA						1		1				1			1	1		1						0	0.0
TRAINING EQUIPMEN	MT			1 1		1			1			1	1		I	1	1	1				1		n	0.0
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INTERIM CONTRACT	OP SUPPORT			1 1		1		1	1						1									0	0.0
INTERIM CONTRACT	OK SUFFORT	1				1		1	_			1	1			1	1	1	_		-		1	U	0.0
INSTALLATION OF HA	DD144 DE											-				-									
INSTALLATION OF HA	RDWARE											-				-									
EVOC FOLUDIATION OF	nnion			1	9				1	1		1	l.	1		1								45	
FY96 EQUIPMENT & I	PRIOR				9	2.8	6	0.4																15	3.2
FY97 EQUIPMENT								1	1			1				1	1							0	0.0
FY98 EQUIPMENT				1																				0	0.0
FY99 EQUIPMENT																								0	0.0
FY00 EQUIPMENT																								0	0.0
FY 01 EQUIPMENT															,									0	0.0
TO COMPLETE																								0	0.0
																								0	0.0
TOTAL INSTALLATION	I COST				9	2.8	6	0.4		0.0		0.0		0.0		0.0		0.0						15	3.2
TOTAL PROCUREMEN	NT COST					2.9		0.0		0.0		0.0		0.0		0.0		0.0							2.9
TOTAL COST						5.7		0.4		0.0		0.0		0.0		0.0		0.0							6.1
METHOD OF IMPLEME	ENTATION: C								ADMINIST	RATIVE LEA	DTIME: 4				PF	RODUCTION	LEADTIME	: 12 MONT	HS						
CONTRACT DATE:				PRIOR YEA	R:	Mar-95			CURRENT	YEAR:			BU	JDGET YEA	R:			<b>BUDGET Y</b>	EAR 2:						
PRODUCTION DELIVE	R DATE:			PRIOR YEA	R:	Mar-97			CURRENT	YEAR:			BU	JDGET YEA	R:			<b>BUDGET Y</b>	EAR 2:						
INSTALLATION SCHE	DULE:																								
	INPUT =====	>		FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY03	TC						
' '				1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		TOTAL				
	FY 96 & PRIOR			7 2		6			_				•							•	15				
						1 1			1												1				
'				1		1		1	1	1		1	1	1	1	1	1	1	1	1	1				1
1 5	OUTPUT =====			FY96		FY97		FY98	I	FY99		FY00	1	FY01		FY02	1	FY03	тс		1				1
' '		-		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	J	1, 2, 3, 4	1	1, 2, 3, 4	1	1, 2, 3, 4	1, 2, 3, 4	1	TOTAL				1
	EV OC 8 DDICE							6	-	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 3, 4	-	TOTAL				1
	FY 96 & PRIOR			7		2		0	1	1		1	1		1	1	1	1	1	1	15				
				1 1		1		1	1			1	1		1	1	1	1	1	1	1	1	1		200
																									P-3A
1									ITEM	10	PAGE	9				1					CLASSIFIC	ATION: U	INCLASSIFI	ED	

CLASSIFICATION: P3A																						
P3A	UNCLASSIFIED																					
MARKETO ATION TITLE	LE: UNDERWAY REPLENISH		INDIVIDUA	L MODIFICA	ATION															FEBRUAR'	Y 1997	
	EM AFFECTED: INSTALL RAS																					
	TIFICATION: Cargo/Weapon			line																		
DESCRIPTION/JUST	ATUS/MAJOR DEVELOPMENT	MII ESTONES:	to CV/CVN class sn	ips							_								то	то		
DEVELOR MICH STA	ATOS/MASON DEVELOT MENT	MILLOTONES.	FY96 &								+								COMP	COMP	TOTAL	TOTAL
			QTY PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY FY 00	QTY	FY 01	QTY	FY02	QTY	FY03	QTY	COST	QTY	COST		COST
FINANCIAL PLAN (II	IN MILLIONS							$\overline{}$			Ť			i								
THE THE TENT (III	ii ii iii ii										+											
RDT&E	1 1					1					1			-				- 1				
	1 1	1 1	1	1	1	1 1				1	1		1		1		1			1	1	0.0
PROCUREMENT QUANTITY	1 1		1											1							0	
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INSTALLATION KIT																					0	0.0
	ITS NONRECURRING										,										0	0.0
EQUIPMENT			1.1					ļ													0	1.1
EQUIPMENT NONR																					0	0.0
ENGINEERING CHA	HANGE ORDERS							ļ													0	0.0
DATA														f							0	0.0
TRAINING EQUIPM	MENT							1						I							0	0.0
SUPPORT EQUIPM	MENT		,							,			,								0	0.0
OTHER				1				1			1			T.							0	0.0
INTERIM CONTRAC	CTOR SUPPORT																			1	0	0.0
	72																					
INSTALLATION OF H	HARDWARE			$\vdash$	-						+				-		-	-				
INGTALLATION OF I	HARDWARE										-											
EVOC EQUIDMENT	* PRIOR		1	1	20	1 1			1	1	1		1					-			4	20
FY96 EQUIPMENT				'	2.8									-							1	2.8 0.0
													1	-								
FY98 EQUIPMENT																					0	0.0
FY99 EQUIPMENT											,			_							0	0.0
FY00 EQUIPMENT																					0	0.0
FY 01 EQUIPMENT								ļ													0	0.0
FY 02 EQUIPMENT	Т																					
FY 03 EQUIPMENT	т																					
TO COMPLETE														I							0	0.0
																					0	0.0
TOTAL INSTALLATION	ION COST	' '	0.0	1	2.8	-	0.0		0.0	0.0	'	0.0	,	0.0							1	2.8
											1											
TOTAL PROCUREM	MENT COST		1.1		0.0		0.0		0.0	0.0		0.0		0.0								1.1
TOTAL COST			1.1		2.8	1	0.0		0.0	0.0	1	0.0		0.0								3.9
TOTAL COOT	1 1			1	2.0	1 1	0.0		0.0	0.0	1	0.0	1	0.0								3.3
METHOD OF IMPLE	MENTATION: C					ADMINISTRATI	VF I FADTI	MF· 4			PR	CODUCTION	LEADTIME: 24	MONTHS								
CONTRACT DATE:		PRIOR YEAR:	May-96		1	CURRENT YEA				BUDGET Y				GET YEAR 2								1
PRODUCTION DELIV									1 1	BUDGET Y		1 1		GET YEAR 2								1
PRODUCTION DELIV	IVER DATE.	DDIOD VEAD.	May 00			CUDDENT VEA																
		PRIOR YEAR:	May-98			CURRENT YEA	R:			DODOLI			BUL		:							
TINSTALLATION SCL	HEDULE:	PRIOR YEAR:	May-98			CURRENT YEA	R:			DODGETT			ВОД									
INSTALLATION SCH					FY98	CURRENT YEA			FYOO			FY02	ВОД									
INSTALLATION SCI	HEDULE: INPUT =====>	FY96	FY97		FY98	1 [	FY99		FY00	FY01		FY02		FY03	тс			TOTAL				
INSTALLATION SCI	INPUT =====>		FY97 1, 2, 3, 4		FY98 1, 2, 3, 4	1 [			FY00 1, 2, 3, 4			FY02 1, 2, 3, 4		FY03				TOTAL				
INSTALLATION SCI	INPUT =====> FY 96 & PRIOR	FY96	FY97			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-	TOTAL 1				
INSTALLATION SCI	FY 96 & PRIOR FY 97	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-					
INSTALLATION SCI	FY 96 & PRIOR FY 97 FY 98	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-					
INSTALLATION SCI	FY 96 & PRIOR FY 97 FY 98 FY 99	FY96	FY97 1, 2, 3, 4	-		1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-					
INSTALLATION SCI	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-					
INSTALLATION SCI	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01	FY96	FY97 1, 2, 3, 4	-		1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-	1				
INSTALLATION SCI	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-					
INSTALLATION SCF	FY 96 & PRIOR FY 97 FY 98 FY 90 FY 90 FY 90 FY 90 FY 01 FY 02 FY 02	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-	1				
INSTALLATION SCF	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-	1				
INSTALLATION SCF	FY 96 & PRIOR FY 97 FY 98 FY 90 FY 90 FY 90 FY 90 FY 01 FY 02 FY 02	FY96	FY97 1, 2, 3, 4			1 [	FY99			FY01		FY02 1, 2, 3, 4		FY03	тс		-	1				
INSTALLATION SCF	NPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1				
INSTALLATION SCF	NPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 02 FY 03 TC OUTPUT ====>	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01 1, 2, 3,		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1				
INSTALLATION SCF	INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC   OUTPUT ====>  FY 96 & PRIOR	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 1 TOTAL				
INSTALLATION SCI	INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 01 FY 02 FY 03 TC   OUTPUT ====>  FY 96 & PRIOR FY 96	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 1 TOTAL				
INSTALLATION SCI	INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 02 FY 02 FY 03 TC OUTPUT ====>  FY 96 & PRIOR FY 96 FY 97	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 1 TOTAL				
INSTALLATION SCI	NPUT ======> FY 96 & PRIOR FY 97 FY 98 FY 99 FY 01 FY 02 FY 01 OUTPUT ====> FY 96 & PRIOR FY 96 FY 97 FY 98	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 1 TOTAL				
INSTALLATION SCI	NPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC   OUTPUT ====>  FY 96 & PRIOR FY 97 FY 97 FY 98 FY 99	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 TOTAL				
INSTALLATION SCI	NPUT	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 1 TOTAL				
INSTALLATION SCI	INPUT =======>  FY 96 & PRIOR FY 97 FY 99 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT =====>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 99 FY 90 FY 90 FY 91 FY 95 FY 97 FY 99 FY 90	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 TOTAL				
INSTALLATION SCH	INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 02 FY 02 FY 03 TC OUTPUT =====>  FY 98 & PRIOR FY 96 FY 97 FY 98 FY 97 FY 99 FY 00 FY 01 FY 02 FY 01 FY 99 FY 00 FY 01 FY 02 FY 01 FY 07	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 TOTAL				
INSTALLATION SCI	INPUT ======> FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 01 FY 02 FY 03 TC OUTPUT ====> FY 96 & PRIOR FY 97 FY 98 FY 99 FY 99 FY 90 FY 01 FY 02 FY 91 FY 95 FY 97	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4		1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 TOTAL				
INSTALLATION SCI	INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 00 FY 02 FY 02 FY 03 TC OUTPUT =====>  FY 98 & PRIOR FY 96 FY 97 FY 98 FY 97 FY 99 FY 00 FY 01 FY 02 FY 01 FY 99 FY 00 FY 01 FY 02 FY 01 FY 07	FY96 1, 2, 3, 4	FY97 1, 2, 3, 4 1		1, 2, 3, 4 FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 FY99 1, 2, 3, 4		FY00 1, 2, 3, 4	FY01		1, 2, 3, 4		FY03 1, 2, 3, 4	TC 1, 2, 3, 4		-	1 TOTAL 1		NCLASSIFI		P-3A

CLASSIFICATION:	UNCLASSIFIED																					
P3A	-		IN	NDIVIDUAL	MODIFICA	TION														FEBRUARY	1997	
MODIFICATION TIT	LE: UNDERWAY REPLENISHMENT																					
MODELS OF SYST	EM AFFECTED: SADDLE WINCH - (G	(0003)																				
	STIFICATION: Used to transfer fuel for		another																			
DEVELOPMENT ST	TATUS/MAJOR DEVELOPMENT MILES	STONES:																			TO	TO
				Y 96 &															COMP	COMP	TOTAL	TOTAL
			QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (	(IN MILLIONS)																					
RDT&E		1		1				1		ı	1	1					ı			1	0	0.0
PROCUREMENT			23																		23	0.0
QUANTITY																					0	0.0
INSTALLATION KI																					0	0.0
	ITS NONRECURRING																				0	0.0
EQUIPMENT				1.2																	0	1.2
EQUIPMENT NON	RECURRING																				0	0.0
ENGINEERING CH	HANGE ORDERS																				0	0.0
DATA																					0	0.0
TRAINING EQUIPM	MENT																				0	0.0
SUPPORT EQUIP	MENT																				0	0.0
OTHER																					0	0.0
INTERIM CONTRA	ACTOR SUPPORT																				0	1.2
INSTALLATION OF	HARDWARE																					
FY96 EQUIPMENT	F & PRIOR		12	1.4	11	1.3				I		1	1								23	2.7
FY97 EQUIPMENT		1 1			• • •	1			1	I		1	1	1 1						1	0	0.0
FY98 EQUIPMENT		1		- 1		1	1	ļ		l		1	1							1	0	0.0
FY99 EQUIPMENT		1				1	1	T		I		I	1	1						1	0	0.0
FY 00 EQUIPMENT			1			1	1	1		I		1	1	1							0	0.0
FY01 EQUIPMENT		1				1	1	1		ı		1	1							1	0	0.0
TO COMPLETE						1	1					1	l	1							0	0.0
TO COMPLETE		1 1	1	1		1	1	1		ı	1	1	1							1	0	
						1	1						l								U	0.0
		1	1					ı		ı	1	1								1	0	0.0
								1				1								1		
TOTAL INSTALLAT	TION COST			1.4		1.3		0.0	, , , , , , , , , , , , , , , , , , , ,	0.0	,	0			0					0	23	2.7
TOTAL PROCUREM	MENT COST			1.2		0.0		0.0		0.0		0.0			0.0					0.0		1.2
TOTAL COST				2.6		1.3		0.0		0.0		0.0			0.0					0.0		3.9
METHOD OF IMPLE CONTRACT DATE:		PRIOR YEAR:	00/00	Feb-93			CURRENT	RATIVE LEA	DIIME: 6		BUDGET Y	(FAD:		PRODUCT	ION LEAD	TIME: 12		BUDGET YE	4 D O:			
PRODUCTION DEL		PRIOR YEAR:		Feb-93		1	CURRENT			ı	BUDGET		1			1	I	BUDGET YE		1		1
FRODUCTION DEL	IVER DATE.	FRIOR TEAR.	. 03/34	F6D-34			CORRENT	ILAN.			BUDGETT	LAN.						BODGETTE	4N Z.			
INSTALLATION SC	HEDUI F					1	1	1		l		1	1			1						
	INPUT =====>	FY96		FY97		FY98	1	FY99		FY00	1	FY01		FY02		FY03		1		TC		1
	51>	1, 2, 3, 4	<u>_</u>	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	J	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1			1, 2, 3, 4		TOTAL
	FY 96 & PRIOR	6 6	-	6 5		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	•	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4		23
	1 1 JU & FRIOR	0 0		0 3													-			1		23
						-	-					1								1		
1						1	1	1		1	1	1				1	1			1		1
	CUITDUT	FYOO	1	E)/07		EVOC	1	FYOO		EV00		EV04		EVOC		E)/00	ı					
	OUTPUT ====>	FY96	L	FY97		FY98	1	FY99		FY00	J	FY01		FY02		FY03				TC		
		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4		TOTAL
	FY 96 & PRIOR	6 6	_	6 5				1			1									1		23
													l			l						
																						P-3A
						1	1		ITEM	10	PAGE	11	1			1	1	CLASSIFICA	TION: UN	CLASSIFIED		1

OLIVORED VEIGN																							
CLASSIFICATION: UNCLASSIFIED	_	_	INDIVIDUAL	MODIFICA	ATION	$\vdash$											$\vdash$			FEBRUARY 1997			_
MODIFICATION TITLE: UNDERWAY																							1
MODELS OF SYSTEM AFFECTED: SL																							
DESCRIPTION/JUSTIFICATION: Allo			i:																				
DEVELOPMENT STATUS/MAJOR DEV	ELOPMENT MILESTOR	NES:																TO	то				
			FY 96 &															COMP	COMP	TOTAL	TOTAL		
		QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST		_
FINANCIAL PLAN (IN MILLIONS)																							
			1																	_			
RDT&E								1										- 1		0	0.0		
PROCUREMENT QUANTITY		5	1 1			1						1		2		2				10	0.0		-
INSTALLATION KITS		1	1 1			1	1	1				1						- 1		0	0.0		1
INSTALLATION KITS NONRECURRIN	le.		1			1														0	0.0		-
EQUIPMENT		1	0.4			1	1	1				1	0.1		0.2		0.2	1		0	0.9		1
EQUIPMENT NONRECURRING		1	0.4			1							• • • • • • • • • • • • • • • • • • • •		0.2		0.2			0	0.0		
ENGINEERING CHANGE ORDERS			1 1															1		0	0.0		1
DATA		1				1	- 1	1				,						,		0	0.0		1
TRAINING EQUIPMENT			1					1												0	0.0		1
SUPPORT EQUIPMENT	' '							,				,						,		0	0.0		
OTHER																				0	0.0		
INTERIM CONTRACTOR SUPPORT	<u> </u>																			0	0.0		
INSTALLATION OF HARDWARE																							
FY96 EQUIPMENT & PRIOR		2	0.9	2	0.4									1	1.0					5	2.3		1
FY97 EQUIPMENT		l															$\Box$			0	0.0		1
FY98 EQUIPMENT								1										- 1		0	0.0		
FY99 EQUIPMENT FY00 EQUIPMENT			1 1			1														0	0.0 0.0		-
FY01 EQUIPMENT		1	1 1			1	1	1		AP	0.2	1		1	1.0			- 1		1	1.2		1
FY02 EQUIPMENT			1 1			1	- 1			AF	0.2	- 1			1.0	2	1.7	- 1		2	1.7		
FY 03 EQUIPMENT			1 1			1						1				-	1.7	2	1.7	2	1.7		
TO COMPLETE																				-			
TOTAL INSTALLATION COST		3	0.9	2	0.4	1	0.0	1	0.0		0.2	,	0.0	1	2.0	2	1.7	2	1.7	10	6.9		1
TOTAL PROCUREMENT COST			0.4		0.0		0.0		0.0		0.0		0.1		0.2		0.2		0.0		0.9		
TOTAL COST			1.3		0.4		0.0		0.0		0.2		0.1		1.8		1.9		1.7		7.8		
METHOD OF IMPLEMENTATION: CONTRACT DATE:	PRIOR YE	AD.	Dec-89				ADMINISTR CURRENT \	ATIVE LEADTII	ME: 4		BUDGET Y	EAD.		PRODUCT	TION LEADT	IME: 1	BUDGET Y	EAD 2.					
PRODUCTION DELIVER DATE:	PRIOR YE		Dec-90				CURRENT				BUDGET Y						BUDGET Y					1	
																							1
INSTALLATION SCHEDULE																							
INPUT =====>			FY96			FY97		FY98		FY99		FY00		FY01			FY02		FY03	TC			
			1, 2, 3, 4			1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_		1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 3, 4	TOTAL		
FY 96 & PRIOR			2			0020											0100				5		
FY 97																	0.00				0		
FY 98																					0		
FY 99																					0		
FY 00 FY 01																	1			-	1	1	1
FY 02	<del>                                     </del>		+																2	-	2		1
FY 03																				2	2		1
TC																							
OUTPUT ====>			EVOC			FY97		FY98		FY99		FY00		FY01			FY02		FY03	TC	10		1
001701 ====>	1 1	1	FY96 1, 2, 3, 4			1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4	TOTAL	1	
FY 96 & PRIOR			., 2, 0, 4			2000		2000		., ., ., .		., ., ., .		., 2, 0, 4	•		0 0 0 1		., ., ., .	., ., ., .	5		
FY 97																					0		
FY 98																				1	0		
FY 99 FY 00																					0		
FY 00																	1				1		
FY 02																			2		2		
FY 03																				2	2		
TC																							
	I																			1	10		
								ITEM	10		PAGE	12			_				CI ACCIEICATI	ON: UNCLASSIFIED		P-3A	

CLASSIFICATION: UNC	I ASSIEIED																				
3A	LAGGIFIED		INDIVIDU	AL MODIFICATIO	N	_			_			_	_	<b>-</b>					FEBRUARY	1997	+
MODIFICATION TITLE: U	UNDERWAY REPLI	ENISHMEN	г																		+
MODELS OF SYSTEM AF	FFECTED: AOE ST	REAM MO	DERNIZATION (G0043)																		
			ear old non-Navy Standard Equipment																		
DEVELOPMENT STATUS	MAJOR DEVELOR	PMENT MIL	ESTONES:															то	то		-
			FY 96 &			_	-											COMP	COMP	TOTAL	TOTAL
			QTY PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MI	LLIONS)																				
RDT&E				1																0	0.0
PROCUREMENT QUANTITY						2				1		1	1						J	3 0	0.0
INSTALLATION KITS	1			1	1	1	1	1	1		1	1	1	1	1					0	0.0
INSTALLATION KITS N	ONRECURRING		1	1	1	1	1	1	1		1	1	1		1	1				0	0.0
EQUIPMENT							3.6				1.1								1	0	4.7
EQUIPMENT NONRECU																				0	0.0
ENGINEERING CHANG	E ORDERS												1							0	0.0
TRAINING EQUIPMENT				1	1	1	1		1	1	1	1	1	1	1		1		1	0	0.0 0.0
SUPPORT EQUIPMENT			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			0	0.0
OTHER																				ō	0.0
INTERIM CONTRACTOR	R SUPPORT																			0	0.0
MOTAL LATION OF	DWARE				1						1										↓
INSTALLATION OF HARI	DWAKE			-	-	-	-	-	-		-	1	1								+
				1	1	1	1	1	1	1	1	1	1	1	1	1				0	0.0
FY96 EQUIPMENT & PR	RIOR				1	I	1	I	I	1		1	1	1						0	0.0
FY97 EQUIPMENT			' '	,																0	0.0
FY98 EQUIPMENT				AP	0.07	AP	0.5	1	5.4	1	5.4									2	11.4
FY99 EQUIPMENT FY 00 EQUIPMENT				1	1		1				ı		4.7		1				1		
FY 00 EQUIPMENT						1	1	1	1		1	1	4.7		1	1				1	4.7 0.0
FY02 EQUIPMENT																			-	U	0.0
FY03 EQUIPMENT																			-		
TO COMPLETE																				0	0.0
																				. 0	0.0
TOTAL INSTALLATION C	2007			AP	0.07	AP	0.5	1	5.4	1	5.4	1	4.7	0.0	1		0		0	3	16.1
TOTAL INSTALLATION C	2051			AP	0.07	AP	0.5	1	5.4		5.4		4./	0.0			0		U	3	16.1
TOTAL PROCUREMENT	COST				0.0		3.6		0.0		1.1			0.0			0.0		0.0		4.7
TOTAL COST	,		· · · · · · · · · · · · · · · · · · ·	,	0.1		4.1		5.4		6.5	1	1	0.0	1		0.0		0.0		20.8
METHOD OF IMPLEMEN	TATION: C						ATIVE LEADTIN	ME: 3						PRODUCT	ION LEAD	TIME: 18					
CONTRACT DATE: PRODUCTION DELIVER	DATE.		PRIOR YEAR: PRIOR YEAR:	1	1	CURRENT Y			1	BUDGET YE	AR: Jan-98 AR: Sep-99	1	1	1			BUDGET YEAR		1	1	1
PRODUCTION DELIVER	DATE.		FRIOR TEAR.			CORRENT	EAR.			BUDGETTE	AR. Sep-ss						BUDGET TEA	4R 3.			+
INSTALLATION SCHEDU	JLE:		'		1	1	1	1	1		1	1	1	1				1		1	1
	INPUT =====>		FY96		FY97		FY98		FY99		FY00		FY01	FY02			FY03				
			1, 2, 3,	4	1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4	='	1, 2, 3, 4	_	1, 2, 3, 4	1, 2, 3, 4	-		1, 2, 3, 4		TOTAL	_	
	FY 96 & PRIOR FY 97																		- 0		
	FY 98				1	1	1	1	1	1	1	1	1	1		1			- 2		
	FY 99				1						· ·								- 0		<b>†</b>
	FY 00				1								1						1		
	FY 01																		0		
	FY 02				1	1			1		1	1	1	l	1	1			0		
	FY 03 TC																		0		
																		-	3		
	OUTPUT ====>		FY96		FY97		FY98		FY99		FY00		FY01	FY02			FY03		<u> </u>		1
			1, 2, 3,	4	1, 2, 3, 4	_	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 3, 4			1, 2, 3, 4		TOTAL		
	FY 96 & PRIOR				_	1		1	_				_			1			0		1
	FY 97 FY 98				1		1		1		-	1	1	-					_ 0 2		+
	FY 98 FY 99			-	+	+	+	-	1		1	+	+		-	-			_ 2 _ 0		+
	FY 00			1	1	1	1	1				1	1	1	1	1			1		1
	FY 01										<u> </u>	1	<u> </u>						0		1
	FY 02																		0		
	FY 03																		0		
	тс																		0		D 04
							ITEM	PAGE											3		P-3A
	1				1	1	10	13	1	1	1		1	1	1						1

CLASSIFICATION: UNCLASSIFIED			NDD//DIIA	L MODIFIC	ATION											_	FEBRUARY	(4007		
P3A MODIFICATION TITLE: FUEL DELIVERY S	TATION	ļir	NDIVIDUA	L MODIFIC	ATION												FEBRUART	1997		
MODELS OF SYSTEM AFFECTED: UNDER		VETEM (CO	2022)																	
DESCRIPTION/JUSTIFICATION: ENABLES				DICC																-
DEVELOPMENT STATUS/MAJOR DEVELOR		7 INCH FUI	EL HUSE	KIGS.													то	то		
DEVELOPMENT STATOS/MAJOR DEVELO	FMENT MILESTONES.		Y 96 &														COMP	COMP	TOTAL	TOTAL
			PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02 QTY	FY 03	QTY	COST	QTY	COST
	<u> </u>	QII	PRIOR	QII	F1 97	QII	F1 90	QII	F1 99	QIT	F1 00	QII	FTUI	QIT	FT UZ QII	F1 U3	QIT	C031	QIT	CUST
FINANCIAL PLAN (IN MILLIONS)																				
																_		1		
RDT&E						1						1								
PROCUREMENT_																			0	0.0
QUANTITY		1																	1	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT			1.3																0	1.3
EQUIPMENT NONRECURRING																		1	0	0.0
ENGINEERING CHANGE ORDERS															,				0	0.0
DATA					1	'			1										0	0.0
TRAINING EQUIPMENT			1												1				0	0.0
SUPPORT EQUIPMENT		1			1	1			1		1	1	1						0	0.0
OTHER		1			1	1			1		1	1	1			_			n	0.0
INTERIM CONTRACTOR SUPPORT					1	1			1		1	1	1			_	1	-	0	0.0
INTERIM CONTRACTOR SUPPORT																	+		<u> </u>	0.0
INOTALL ATION OF HARDWARE		1	1		1	I			1			I		-						
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR		1	1.2																1	1.2
FY97 EQUIPMENT					1				1										0	0.0
FY98 EQUIPMENT																			0	0.0
FY99 EQUIPMENT																			0	0.0
FY 00 EQUIPMENT																			0	0.0
FY01 EQUIPMENT																			0	0.0
FY02 EQUIPMENT																				
FY03 EQUIPMENT																				
TO COMPLETE																		1	0	0.0
		,				1						1		,	,				0	0.0
TOTAL INSTALLATION COST			1.2		0		0		0		0		0		0		)	0	1	1.2
														1						
TOTAL PROCUREMENT COST			1.3		0.0		0.0		0.0		0.0		0.0		0.0	0.0		0.0		1.3
TOTAL COST			2.5		0.0	'	0.0		0.0		0.0		0.0		0.0	0.0		0.0		2.5
METHOD OF IMPLEMENTATION: C							RATIVE LE	ADTIME: 9	9				PRODUC	TION LEAD				İ		
CONTRACT DATE:	PRIOR YEAR		VAR			CURRENT				BUDGET			1		<b>BUDGET YEAR 2:</b>					
PRODUCTION DELIVER DATE:	PRIOR YEAR	R:	VAR			CURRENT	YEAR:			BUDGET	EAR:		1		BUDGET YEAR 2:					
INSTALLATION SCHEDULE:																				
INPUT =====>			FY96		FY97		FY98		FY99		FY00		FY01		FY02	FY03		TC	1	
		_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		TOTAL
FY96 & PRIOR			1															_		1
OUTPUT ====>			FY96		FY97		FY98		FY99		FY00		FY01		FY02	FY03		TC		
			1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	,	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		TOTAL
		_																		
FY96 & PRIOR					1															1
														1						
* PRIOR YEAR COLUMN INDICATES EQUIP	PMENT PRIOR TO FISCAL	YEAR 93			1	1			1		1	1	1	- 1	1	1	1	1	1	
																				P-3A
								ITEM	10	PAGE	14				CLASSIFICATION	UNCLASSI	FIED			
					-													1		

CLASSIFICATION: UNCLAS	OFFER							_		_		_		_			1					
P3A	SIFIED		INDU/IDITAL	MODIFICAT	FION			_												FERRUARY	4007	
P3A MODIFICATION TITLE: UNI	DEDWAY DEDI ENIGHMENT		INDIVIDUAL	. MODIFICAT	ION	1		-		-	-	-		-	-		-			FEBRUARY	1997	-
MODELS OF SYSTEM AFFEC																						
DESCRIPTION/JUSTIFICATION																						
DEVELOPMENT STATUS/MA	AJOR DEVELOPMENT MILES	STONES:																TO	TO			
			FY 96 &															COMP	COMP	TOTAL	TOTAL	
		QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST	
FINANCIAL PLAN (IN MILLIC	ONS)					Ī		Ĭ				Ī	Ī									
,																						
RDT&E		- '	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	0	0.0	
PROCUREMENT		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.0	_
QUANTITY		1 1	1	1	,	1		1				1								0	0.0	
INSTALLATION KITS		1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	0	0.0	
INSTALLATION KITS NONR	FOURDING		1	1			1	1				ļ.							1	0		
	RECURRING					1														-	0.0	_
EQUIPMENT			1.0																	0	1.0	
EQUIPMENT NONRECURRI																				0	0.0	
ENGINEERING CHANGE OF	RDERS																			0	0.0	
DATA																				0	0.0	
TRAINING EQUIPMENT																				0	0.0	
SUPPORT EQUIPMENT																				0	0.0	
OTHER			I	I		1												T		0	0.0	
INTERIM CONTRACTOR SU	JPPORT							1												0	0.0	
INSTALLATION OF HARDWA	ARF		-	-									1				+					
FY96 EQUIPMENT & PRIOR						+		AP	0.02	1	0.2	1	0.3	2	0.4	1		1	1	4	0.9	_
FY97 EQUIPMENT	,		+			+		_ ^ı	0.02	<u> </u>	0.2	<u> </u>	0.0	-	0.4	1		T	1	0	0.9	
FY98 EQUIPMENT		1 1	1	1	1	1	1	1	I		1	1	1	_	1	1		1	1	-	0.0	
	1	1 1	1	1	1	1	1	1	1		1	1	1			1			1	0	0.0	
FY99 EQUIPMENT				1			1	1											1			
FY00 EQUIPMENT			1		1	1		1												0	0.0	
FY01 EQUIPMENT						1														0	0.0	
02 EQUIPMENT																				0	0.0	
03 EQUIPMENT																				0	0.0	
TO COMPLETE																						
TOTAL INSTALLATION COST	Т	'	0.0		0.0		0.0		0.02		0.2		0.3		0.4		0.0		0.0	4	0.9	
TOTAL PROCUREMENT COS	ST		1.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.0	
TOTAL COST																						
			1.0			1	0.0		0.01	1	0.2		0.3	1	0.8	1					1.9	
			1.0		0.0		0.0	1	0.01		0.2		0.3	i I	0.8		0.0	l I	0.0		1.9	
METHOD OF IMPLEMENTAT	ION:		1.0					RATIVE I FA		ONTHS	0.2			PRODUCTI		IMF: 12					1.9	
METHOD OF IMPLEMENTAT	TION:	PRIOR VEAR					ADMINISTR		DTIME: 6 M	ONTHS		VEAD.		PRODUCTI		  ME: 12	0.0	(EAD 2:			1.9	
CONTRACT DATE:		PRIOR YEAR:	Jun-92				ADMINISTR	YEAR:	DTIME: 6 M		BUDGET			PRODUCTI		    ME: 12	0.0 BUDGET Y				1.9	
		PRIOR YEAR:					ADMINISTR	YEAR:	DTIME: 6 M					PRODUCTI		IME: 12	0.0				1.9	
CONTRACT DATE: PRODUCTION DELIVER DAT	re:		Jun-92				ADMINISTR	YEAR:	DTIME: 6 M		BUDGET			PRODUCTI		IME: 12	0.0 BUDGET Y				1.9	
CONTRACT DATE: PRODUCTION DELIVER DAT	re:		Jun-92 Jun-93				ADMINISTR	YEAR: YEAR:	DTIME: 6 M		BUDGET	YEAR:				IME: 12	0.0 BUDGET Y		0.0		1.9	
CONTRACT DATE: PRODUCTION DELIVER DAT	re:		Jun-92 Jun-93			FY97	ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	YEAR:		FY01		IME: 12	BUDGET Y BUDGET Y		0.0 FY03	TC		
CONTRACT DATE: PRODUCTION DELIVER DAT	re:		Jun-92 Jun-93	<u> </u>		FY97 1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M		BUDGET	YEAR:				IME: 12	0.0 BUDGET Y		0.0	TC 1, 2, 3, 4	1.9	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	INPUT =====>		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT	FY 96 & PRIOR		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	YEAR:		FY01		IME: 12	BUDGET Y BUDGET Y		0.0 FY03			
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97		Jun-92 Jun-93	 			ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR		Jun-92 Jun-93	<u> </u>			ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 98		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 99		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 99 FY 90 FY 91 FY 90 FY 91 FY 92		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 01 FY 02 FY 03		Jun-92 Jun-93				ADMINISTE CURRENT CURRENT	YEAR: YEAR: FY98	DTIME: 6 M	FY99	BUDGET	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y FY02 1, 2, 3, 4		0.0 FY03		TOTAL 4	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 91 FY 92 FY 93 FY 93 TC		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:     FY98   1, 2, 3, 4	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4		IME: 12	BUDGET Y BUDGET Y  FY02 1, 2, 3, 4 1 1		0.0 FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 01 FY 02 FY 03		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01	ON LEADT	ME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1		FY03 1, 2, 3, 4	1, 2, 3, 4	4 4	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90 FY 90 FY 91 FY 92 FY 92 FY 93 FY 9		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:     FY98   1, 2, 3, 4	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01 1, 2, 3, 4	ON LEADT	ME: 12	BUDGET Y BUDGET Y  FY02 1, 2, 3, 4 1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 90 FY 91 FY 92 FY 93 TC OUTPUT =====> FY 96 & PRIOR		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01	ON LEADT	ME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4	1, 2, 3, 4	4 4	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90 FY 90 FY 90 FY 90 TO OUTPUT =====> FY 96 & PRIOR FY 97		Jun-92 Jun-93 FY96 1, 2, 3, 4	-		1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 90 FY 91 FY 92 FY 93 TC OUTPUT =====> FY 96 & PRIOR		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01 1, 2, 3, 4	ON LEADT	ME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90 FY 90 FY 90 FY 90 TO OUTPUT =====> FY 96 & PRIOR FY 97		Jun-92 Jun-93 FY96 1, 2, 3, 4	-		1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 99 FY 91 FY 92 FY 92 FY 93 TC OUTPUT		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1 FY01 1, 2, 3, 4	ON LEADT	ME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 91 FY 92 FY 93 FY 01 FY 93 FY 02 FY 93 FY 07 FY 98 FY 97 FY 98 FY 97 FY 98 FY 99 FY 91		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1  FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 01 FY 02 FY 03 TC OUTPUT =====> FY 98 FY 99 FY 99 FY 97 FY 98 FY 99 FY 99 FY 99 FY 90 FY 90		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1  FY01 1, 2, 3, 4	ON LEADT	ME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 97 FY 98 FY 99 FY 91 FY 90 FY 90 FY 90 FY 91 FY 91 FY 92 FY 93 FY 91 FY 92 FY 93 FY 91 FY 92 FY 93 FY 93 FY 97 FY 97 FY 97 FY 98		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1  FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4 TOTAL 4	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 97 FY 98 FY 01 FY 02 FY 03 TC OUTPUT =====> FY 98 FY 99 FY 99 FY 97 FY 98 FY 99 FY 99 FY 99 FY 90 FY 90		Jun-92 Jun-93 FY96 1, 2, 3, 4	-		1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1  FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4  TOTAL	
CONTRACT DATE: PRODUCTION DELIVER DAT INSTALLATION SCHEDULE:	FY 96 & PRIOR FY 97 FY 98 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 90 FY 97 FY 98 FY 99 FY 91 FY 90 FY 90 FY 90 FY 91 FY 91 FY 92 FY 93 FY 91 FY 92 FY 93 FY 91 FY 92 FY 93 FY 93 FY 97 FY 97 FY 97 FY 98		Jun-92 Jun-93 FY96 1, 2, 3, 4			1, 2, 3, 4	ADMINISTE CURRENT CURRENT	YEAR: YEAR:	DTIME: 6 M	FY99 1, 2, 3, 4	BUDGET	YEAR:    FY00		FY01 1, 2, 3, 4 1  FY01 1, 2, 3, 4	ON LEADT	IME: 12	0.0  BUDGET Y  BUDGET Y  FY02  1, 2, 3, 4  1 1	/EAR 2:	FY03 1, 2, 3, 4  FY03 1, 2, 3, 4	1, 2, 3, 4	TOTAL 4 TOTAL 4 TOTAL 4	P-3A

		EM JUSTIFICATIO EXHIBIT P-40	ON SHEET			DATE:	February 1997	
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLAT	URE/SUBHEAD		
OTHER PROCUREMENT NA	VY/BA-1:				SUBMARINE	PERSICOPES	& IMAGING	
SHIPS SUPPORT EQUIPMEN	T				<b>EQUIPMENT</b>	T/81PL/083100/08	33105	
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY								
COST (In Millions)	\$23.9	\$31.9	\$32.1	\$27.9	\$22.8	\$15.0	\$14.0	\$13.1

Service Approval - The Type 18 Periscope was approved for service use December 1972.

The Type 18 Periscope contains completely redesigned Electronic Surveillance Measure (ESM) and Optical Subsystems. The ESM provides improved sensitivity, reliability, and maintainability as well as frequency extension. The optical subsystem provides higher power and resolution (optimized for photography) and the eyepiece box is redesigned for built-in TV. Special electronics for low light level viewing are also provided. Type 18B Periscope Systems are installed on SSN 688 Class.

The Type 18 Periscope Inventory Objective is 65 units: (51 Type 18B). This is the quantity required for ship installation (51), spares (10), trainers (3), and (1) configuration model.

The Type 8B Mod 3 Periscope provides enhanced imaging and communications capabilities. The Type 8B Mod 3 Periscope replaces the Type 2 Periscope on SSN 688 Class Submarines. The Type 8B Mod 3 Periscope inventory objective is 51 units. This is the quantity required for ship installation (44), spares (5), trainers (1), and configuration control model (1).

PL001 - Procurement of Type 8B Mod 3 Periscopes began in FY 1991. The Type 8B Mod 3 replaces the Type 2 Periscope on SSN-688 Class Submarines and provides them with enhanced imaging and communications capabilities. Installations will be accomplished during routine upkeep periods.

PL006 - Imaging components are required to fully support Type 18 TV imaging, photographic, television, and ancillaries and upgrades. These equipments include 35 mm Cameras, High Resolution Video Cameras, Video and Photographic Screening Systems, AR-165B Readers/Printers, equipments that must be replaced and ancillary components. These maintenance items support fleet requirements based on demand history, repair turn-around time, and casualties resulting from non-repairable equipments that must be replaced.

PL007 - Procurement of Type 18 Periscope Automatic Direction Finding (ADF) modifications will provide SSN 688 Class Submarines with an automatic direction finding capability. Installations will be accomplished during routine upkeep periods. Procurement quantities vary year to year based on projected submarine availabilities and availability of funding.

BUDGET ITEM JUSTIFICATION SHEET EXHIBIT P-40	DATE: February 1997
OTHER PROCUREMENT NAVY/BA-1:	 CPERSICOPES & IMAGING E/81PL/083100/083105

- PL011 FY-1998/99 funding continues procurement of the following Type 18 Field Change Kits: 12 Channel Rotary Joint, Sleeve Antenna Amplifier Limiter Replacement, Outer Head Corrosion Protection, Right Training Handle Magnification Switch, RF improvements, Fairing Hoist Cylinder Dynamic Seal, Heated Head Window replacement, Drip Pan Assembly replacement, Cathodic Rod replacement, Fairing Closure Cap Seal, Laser Eye Protection, Hull Fitting Seal, Hoist Rod Cover and Hydraulic Noise Reduction.
- PL012 FY 1998/99 funds procure replacement Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes dynamic collimator, eyebox/mast test set, and antenna/outer head simulator required due to obsolescence and age of existing Type 8 and 18 Periscope SSE.
- PL015 Funding is for interim contract support provided by the periscope manufacturer including Depot and Intermediate level repair of all types of tactical periscope equipment.
- PL016 Funding is for Type 8 and 18 periscope changes training including curriculum development, training materials, initial factory training pilot course conduct, and instructor advisory services.
- PL017 FY 1998/99 funding provides for the repair or replacement of periscope E&E Adapter shipping containers which provide security and protection for the periscope E&E Adapter.
- PL018 FY 1998/99 funding provides for the repair or replacement of periscope eyepiece box shipping containers which provide security and protection for the periscope eyepiece box.
- PL019 FY1998/99 funding provides for the repair or replacement of periscope shipping containers which provide security and protection for the periscope.
- PL830 Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all of the Type 8 and 18 items manufactured.
- PL5IN Funding is for the installation of Fleet Modernization Program Equipment only.
- PL6IN Funding is for the installation of Non Fleet Modernization Program Equipment only.
- PLDSA The budget reflects the transfer of design services into the appropriate equipment P1 line item beginning in FY 98.

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	UNCLASSIFIED									
	WEAPON SYSTE	EM COST	ANAL	YSIS					DATE:	
	EXH	IBIT P-5							i	February 1997
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APPROPRIATION/BU						P-1 ITEM NOMENCLA	TURE/SUE	SHEAD		
OTHER PROCURE	MENT NAVY/BA-1:									
SHIPS SUPPORT E	QUIPMENT					SUBMARINE PERS	SICOPES	& IMAGING		
						EQUIPMENT/81PI				
					TOTA	AL COST IN THO	DUSAND	S OF DOLLARS		
COST	ELEMENT OF COST	IDENT		FY96		FY97		FY98	i	FY99
CODE		CODE								
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
PL001	TYPE 8B MOD 3 PERISCOPE (SSN)	A	7	<b>\$7,679</b>	7	\$7,848	10	\$11,278	9	\$10,374
r Luui	11 FE 6B MOD 3 FERISCOFE (SSN)	A	,	\$7,079	,	\$7 <b>,04</b> 0	10	\$11,276	, ,	\$10,374
PL006	TYPE 18 IMAGING COMPONENTS	A		1,761		2,186		1,517		6,104
LUUU	THE TO MANIGHTS COMM ON EATING			1,701		2,100		1,017		0,104
PL007	TYPE 18 PERISCOPE ADF MOD	A	2	2,278	4	4,656	7	7,879		0
22007	11121012445001214214102		_	2,2.0	-	1,020	•	7,075		v
PL011	PERISCOPE FIELD CHANGE KITS	A		1,758		1,501		877		1,054
				,		,				,
PL012	PERISCOPE SPECIAL SPT EQUIPMENT	A		588		1,100		445		455
PL015	PERISCOPE INTERIM CONTRACT SPT	A		3,447		3,465		3,531		3,683
PL016	PERISCOPE TRAINING	A		130		131		50		52
PL017	PERISCOPE E&E ADAPT SHIP CONTNRS	A		36		0		38		0
PL018	PERISCOPE EPB SHIP CONTAINERS	A		9		0		9		0
DI 010	DEDICOODE CHIPDING CONTAINEDC			(0)				(2)		
PL019	PERISCOPE SHIPPING CONTAINERS	A		60		0		63		0
PL830	PERISCOPE PRODUCTION ENGR.			\$2,818		\$2,881		\$2,285		\$2,566
r 1.050	FERISCOFE FRODUCTION ENGR.	A		\$2,010		\$2,001		\$2,203		\$2,500
PL900	CONSULTING SERVICES	A		818		836		663		873
12,00	CONSCIENT SERVICES			010		020		000		075
DD FORM 2445 WRITE				P-1 SHOPPING LIST			CLASSIFIC	ATION:		EXHIBIT P-
DD FORM 2446, JUN 86				M NO. PAGE NO. 11 3			TINIC	T ACCIDII	ZD.	

	CITCEIISSII IEE									
	WEAPON SYSTI EXH	EM COST IBIT P-5		YSIS					DATE:	February 1997
PPROPRIATION/B	UDGET ACTIVITY					P-1 ITEM NOMENCLA	TURE/SUE	BHEAD		
THER PROCURE	EMENT NAVY/BA-1:									
HIPS SUPPORT E	QUIPMENT					SUBMARINE PERS	SICOPES	& IMAGING		
						EQUIPMENT/81PI				
					TOT	AL COST IN THO	OUSAND	S OF DOLLARS		
COST	ELEMENT OF COST	IDENT		FY96		FY97		FY98		FY99
CODE		CODE								
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
LXXX	APX-100 IFF RECEIVERS	A		0		2,822		0		0
L5IN	FMP INSTALLATIONS	A		2,184		3,051		1,681		1,656
L6IN	NON-FMP INSTALLATIONS	A		326		1,405		1,361		643
PLDSA	Design Services Allocation FMP							454		460
	GRAND TOTAL			\$23,892		\$31,882		\$32,131		\$27,920
D FORM 2446, JUN 86	6			P-1 SHOPPING LIST M NO. PAGE NO.		Ī	CLASSIFIC	ATION:	7.00	EXHIBIT P-5
				11 1 1		1	T T T T	1	3 E	

#### BUDGET PROCUREMENT HISTORY AND PLANNING DATE: **EXHIBIT P-5A** February 1997 (\$000)APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD OTHER PROCUREMENT NAVY/BA-1: SUBMARINE PERSICOPE & IMAGING SHIPS SUPPORT EQUIPMENT **EQUIPMENT/81PL** CONTRACT DATE OF SPECS SPEC IF YES COST LINE ITEM/ CONTRACTOR METHOD CONTRACTED AWARD FIRST QUANTITY UNIT AVAILABLE REV WHEN CODE FISCAL YEAR AND LOCATION & TYPE BYDATE DELIVERY COST NOW REO'D AVAILABLE PL001 **TYPE 8B MOD 3 PERISCOPE** FY96 UNKNOWN WX NUWC 12/95 02/97 7 \$1,097.0 YES NO FY97 7 UNKNOWN WX NUWC 12/96 02/98 \$1,121.1 YES NO UNKNOWN NUWC 12/97 \$1,127.8 YES FY98 WX 02/99 10 NO FY99 UNKNOWN WX NUWC 12/98 02/00 9 \$1,152.7 YES NO PL007 TYPE 18 PER ADF MOD NUWC FY96 UNKNOWN WX 12/95 12/96 2 \$1.139.0 YES NO FY97 UNKNOWN WX NUWC 12/96 12/97 4 \$1,164.0 YES NO FY98 UNKNOWN WX NUWC 12/97 12/98 7 \$1,125.6 YES NO REMARKS: ALL FUNDING PROVIDED TO NUWC WILL BE ACCEPTED ON A REIMBURSABLE BASIS; THEREFORE, CONTRACTOR WILL BE "UNKNOWN".

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ITEM NO. PAGE NO.

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CLASSIFICATION: EXHIBIT P-5A

CLASSIFICATION: UNCLASSIFIED February 1997

INDIVIDUAL MODIFICATION SUBMARINE PERISCOPE & IMAGING EQUIPMENT/81PL/083100/083105 SUBMARINE PERISCOPES & IMAGING EQUIPMENT MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED: TYPE 8B MOD3 PERISCOPE, 3803,PL001 DESCRIPTION/JUSTIFICATION: Provides EHF Satellite Communications DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TO In Production FY96 COMP COMP TOTAL TOTAL QTY & PRIOR QTY FY97 QTY FY98 QTY FY99 QTY FY00 QTY FY01 QTY FY02 QTY FY03 COST OTY OTY FINANCIAL PLAN (IN MILLIONS) RDT&E 0.000 PROCUREMENT 47 419 7.848 11.278 10.374 0 0.000 0.000 0.000 0.000 0.000 76 919 QUANTITY 0.000 INSTALLATION KITS 0.000 INSTALLATION KITS NONRECURRING 0.000 EQUIPMENT 42.592 4.485 11.278 4.611 0.000 0.000 0.000 0.000 0.000 62.966 EQUIPMENT NONRECURRING 0.000 ENGINEERING CHANGE ORDERS 0.000 DATA 0.000 2.680 0.000 0.000 0.000 2.680 SUPPORT EQUIPMENT; CONFIGURATION MODEL (1)
OTHER: TRIDENT PAYBACKS (6) 0.000 1.153 0.000 0.000 0.000 1.153 0.000 0.000 0.000 0.000 2.147 0.000 0.000 2.305 0.000 0.000 0.000 0.000 0.000 OTHER: SPARES (5) 2.305 0.000 0.000 3.363 0.000 0.000 0.000 0.000 0.000 5.668 INSTALLATION OF HARDWARE FY96 EQUIPMENT AND PRIOR 3.795 2.771 6.566 FY97 EQUIPMENT 4 1.824 1.824 FY98 EQUIPMENT 5.448 1.689 FY99 EQUIPMENT 2.148 FY00 EQUIPMENT FY01 EQUIPMENT 0.000 FY02 EQUIPMENT FY03 EQUIPMENT 0.000 0.000 TO COMPLETE NOTE: THE TOTAL PROGRAM QUANTITY REFLECTS THE INVENTORY OBJECTIVE FOR THIS ITEM 0.000 TOTAL INSTALLATION COST 1.824 1.689 5.907 0.000 0.000 15.986 TOTAL PROCUREMENT COST 7.848 11.278 10.374 0.000 0.000 0.000 76.919 TOTAL COST 51.214 10.619 13.102 12.063 5.907 0.000 0.000 0.000 92.905 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 14 MONTHS AITs 6 MONTHS PRODUCTION LEADTIME: CONTRACT DATE: PRIOR YEAR: 12/95 CURRENT YEAR: BUDGET YEAR 1: 12/97 BUDGET YEAR 2: 12/98 PRODUCTION DELIVER DATE: PRIOR YEAR: 2/97 CURRENT YEAR: BUDGET YEAR 1: 2/99 BUDGET YEAR 2: 2/00 INSTALLATION SCHEDULE: INPUT === FY96/PY FY97 FY99 FY00 TC 1,2,3,4 1,2,3,4 TOTAL 1,2,3,4 7,3,2,1 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 FY96 & PRIOR 0,2,2,0 FY97 FY98 0.1.2.0 3.3.1.0 0,3,1,0 FY99 FY01 FY02 FY03 OUTPUT =====> FY98 FY99 FY00 FY01 FY02 FY03 1,2,3,4 7,3,2,1 1,2,3,4 0,0,2,5 1,2,3,4 TOTAL 1.2.3.4 1 ,2 ,3 ,4 1.2.3.4 1.2.3.4 1.2.3.4 FY96 & PRIOR FY97 0,0,2,2 FY98 0,0,1,2 0,4,3,0 FY99 0.0.1.3

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ITEM NO. PAGE NO.

FY01 FY02

CLASSIFICATION: UNCLASSIFIED

EXHIBIT P-3A

CLASSIFICATION: UNCLASSIFIED February 1997

P3A
SUBMARINE PERISCOPE & IMAGING EQUIPMENT/81PL/083100/083105
SUBMARINE PERISCOPE & IMAGING EQUIPMENT
MODELS OF SYSTEM AFFECTED:
DESCRIPTION/JUSTIFICATION:
Provides wide bandwidth reception and instantaneous direction finding.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		duction FY96															TO COMP			
FINANCIAL PLAN (IN MILLIONS)	QTY	& PRIOR	QTY	FY97	QTY	FY98	QTY	FY99	QTY	FY00	QTY	FY01	QTY	FY02	QTY	FY03	QTY	COST	QTY	COST
INANCIAL FLAN (IN MILLIONS)																				
<u>DT&amp;E</u>																			0	0.000
ROCUREMENT	45	42.705	4	4.656	7	7.879													56	55.240
QUANTITY																			0	0.000
INSTALLATION KITS INSTALLATION KITS NONRECURRING																			0	0.000
EOUIPMENT	35	33.215	4	4.656	7	7.879													46	45.750
EQUIPMENT NONRECURRING	33	33.213	*	4.050	,	7.079													0	0.000
ENGINEERING CHANGE ORDERS																			0	0.000
DATA																			0	0.000
TRAINING EQUIPMENT	3	2.847																	3	2.847
SUPPORT EQUIPMENT (CCM, SWING SETS)	4	3.796																	4	3.796
OTHER (LBU/GFE)	3	2.847																	3	2.847
INTERIM CONTRACTOR SUPPORT																			0	0.000
																			0	0.000
NSTALLATION OF HARDWARE																				
FY96 EQUIPMENT AND PRIOR	42	2.940	7	0.280	2	0.104	1	0.053	2	0.120									54	3.497
FY97 EQUIPMENT					4	0.207													4	0.207
FY98 EQUIPMENT							7	0.374											7	0.374
FY99 EQUIPMENT																			0	0.000
FY00 EQUIPMENT																			0	0.000
FY01 EQUIPMENT																			0	0.000
FY02 EQUIPMENT																			0	0.000
FY03 EQUIPMENT																			0	0.000
TO COMPLETE																				
NOTE: THE TOTAL PROGRAM QUANTITY REFLECTS THE INVEN	VITORY OR IECTIVE EC	AP THIS ITEM																		
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME	R GFE UNITS AND AS	SSETS FROM I	DECOMM																0	0.000
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME		SSETS FROM I		USSIONING 0.280	BOATS.	0.311	8	0.427	2	0.120	0	0.000	0	0.000	0	0.000	0	0.000	0 65	0.000 4.078
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST	R GFE UNITS AND AS	SSETS FROM I 2.940	DECOMM				8	0.427	2	0.120	0	0.000	0	0.000	0	0.000	0	0.000	65	
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME FOTAL INSTALLATION COST FOTAL PROCUREMENT COST	ER GFE UNITS AND AS	SSETS FROM I 2.940	DECOMM 7	0.280	6	0.311 7.879 8.190														4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL COST	ER GFE UNITS AND AS	2.940 42.705 45.645	DECOMM 7 4	0.280 4.656 4.936	6	7.879 8.190	0	0.000		0.000 0.120	0	0.000 0.000		0.000 0.000		0.000		0.000	65 56	4.078
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL COST METHOD OF IMPLEMENTATION:  AITS	ER GFE UNITS AND AS 42 45	2.940 42.705 45.645 ADMINISTR	DECOMM 7 4 RATIVE L	0.280 4.656 4.936 EADTIME:	7	7.879 8.190 6 MONTHS	0	0.000 0.427	0	0.000 0.120	0 TION LEA	0.000 0.000 ADTIME:		0.000		0.000		0.000	65 56	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST TOTAL COST  WETHOD OF IMPLEMENTATION:  AITS  ZONTRACT DATE:  PRIOR YEAR:	45 12/95	2.940 42.705 45.645 ADMINISTR	DECOMM 7 4	0.280 4.656 4.936 EADTIME:	6	7.879 8.190 6 MONTHS BU	0	0.000 0.427 AR 1:		0.000 0.120	0 CTION LEA BUD	0.000 0.000		0.000 0.000		0.000		0.000	65 56	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME FOTAL INSTALLATION COST  FOTAL PROCUREMENT COST  FOTAL COST  METHOD OF IMPLEMENTATION:  CONTRACT DATE:  PRIOR YEAR:  PRODUCTION DELIVER DATE:  PRIOR YEAR:	45 12/95	2.940 42.705 45.645 ADMINISTR	DECOMM 7 4 RATIVE LI RENT YEA	0.280 4.656 4.936 EADTIME:	7	7.879 8.190 6 MONTHS BU	0 S DGET YEA	0.000 0.427 AR 1:	0	0.000 0.120	0 CTION LEA BUD	0.000 0.000 ADTIME: DGET YEAR 2:		0.000 0.000		0.000		0.000	65 56	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRODUCTION DELIVER DATE:  PRIOR YEAR:  NSTALLATION SCHEDULE:	45 12/95 12/96	42.705 45.645 ADMINISTR CURF	DECOMM 7 4 RATIVE LI RENT YEA	0.280 4.656 4.936 EADTIME: AR:	7	7.879 8.190 6 MONTHS BU	0 S DGET YEA	0.000 0.427 AR 1: AR 1:	0	0.000 0.120 PRODUC	0 CTION LEA BUD	0.000 0.000 ADTIME: OGET YEAR 2:		0.000 0.000 12 MONTHS		0.000 0.000		0.000	65 56	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRIOR YEAR:  RODUCTION DELIVER DATE:  PRIOR YEAR:	45 12/95 12/96 FY96/PY	42.705 45.645 ADMINISTR CURF CURF	7 4 RATIVE LI RENT YEA	0.280 4.656 4.936 EADTIME:	7	7.879 8.190 6 MONTHS BU	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000		0.000 0.000		0.000	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRODUCTION DELIVER DATE:  PRIOR YEAR:  NSTALLATION SCHEDULE:	45 12/95 12/96	42.705 45.645 ADMINISTR CURF	7 4 RATIVE LI RENT YEA RENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98	7	7.879 8.190 6 MONTHS BU BU	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1:	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2:		0.000 0.000 12 MONTHS		0.000 0.000		0.000	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST TOTAL COST  METHOD OF IMPLEMENTATION: AITS CONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT ======>	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 ,2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1,2,3,4	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: AITS ZONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT ======>  FY96 & PRIOR	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1,2,3,4	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000 	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRIOR YEAR:  NOTALLATION SCHEDULE:  INPUT =====>  FY96 & PRIOR FY97	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1.2,3,4 1,0,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000 TOTAL 54 4	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME OTAL INSTALLATION COST  OTAL PROCUREMENT COST  AETHOD OF IMPLEMENTATION: AITS ONTRACT DATE: PRIOR YEAR: ODUCTION DELIVER DATE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1.2,3,4 1,0,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000 TOTAL 54 4	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRIOR YEAR:  PRODUCTION DELIVER DATE:  INPUT  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1.2,3,4 1,0,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000 TOTAL 54 4	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME  FOTAL INSTALLATION COST  FOTAL PROCUREMENT COST  FOTAL PROCUREMENT COST  INTERPRETATION:  METHOD OF IMPLEMENTATION:  PRIOR YEAR:  NOTALLATION SCHEDULE:  INPUT ======>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY01  FY02	12:95 12:96 FY96:PY 12:3.4	42.705 45.645 ADMINISTR CURF CURF	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4	7	7.879 8.190 6 MONTHS BU BU FY99 1.2,3,4 1,0,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4	0 12/97 12/98	0.000 0.120 PRODUC	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: OGET YEAR 2: FY02		0.000 0.000 12 MONTHS		0.000 0.000		0.000 0.000 TOTAL 54 4	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME  TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL PROCUREMENT COST  METHOD OF IMPLEMENTATION: AITS  CONTRACT DATE: PRIOR YEAR:  PRODUCTION DELIVER DATE: PRIOR YEAR:  NSTALLATION SCHEDULE:  INPUT ======>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY00  FY01  FY02  FY02	45 1295 1296  FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF CURF 12.3.4 4,2,1,0	DECOMM 7 4  RATIVE LI RENT YEARENT YEA	0.280 4.656 4.936 EADTIME: AR: FY98 2.23,4 0.0,0 3,1,0,0	7	7.879 8.190 6 MONTHS BU EY99 1.2.3.4 1.0.0.0 3.4.0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1.2.3.4 0.0,2,0	0 12/97 12/98	0.000 0.120 PRODUC FY01 1,2,3,4	0 CTION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0.000 0.000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1,2,3,4		0.000 0.000 TOTAL 54 4	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME  FOTAL INSTALLATION COST  FOTAL PROCUREMENT COST  FOTAL PROCUREMENT COST  INTERPRETATION:  METHOD OF IMPLEMENTATION:  PRIOR YEAR:  NOTALLATION SCHEDULE:  INPUT ======>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY01  FY02	45 12/95 12/96 12/96 12/34 36.0.2.4	SETS FROM 1 2,940 42,705 45,645 45,645 ADMINISTR CURF CURF 1,2,3,4 4,2,1,0 FY97	DECOMM 7 4  RATIVE LI RENT YEA  1 2 3	0.280 4.656 4.936 EADTIME: AR: FY98 .2,3,4 .0,0,0 ,1,0,0	7	7.879 8.190 6 MONTHS BU BU FY99 1.2.3.4 1.0.0.0 3.4.0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  OTAL PROCUREMENT COST  METHOD OF IMPLEMENTATION: AITS CONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ====>	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA  1 2 3	0.280 4.656 4.936 EADTIME: AR: FY98 2.3.4 .0.0.0 5,1.0.0	7	7.879 8.190 6 MONTHS BUL BU. FY99 1.2,3,4 1.0,0,0 3.4,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0.000 0.000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1,2,3,4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION:  AITS CONTRACT DATE:  PRIOR YEAR:  NOTALLATION SCHEDULE:  INPUT  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY02  FY03  OUTPUT  FY96 & PRIOR  FY97  FY98  FY90  FY01  FY02  FY03  OUTPUT  FY96 & PRIOR	45 12/95 12/96 12/96 12/34 36.0.2.4	SETS FROM 1 2,940 42,705 45,645 45,645 ADMINISTR CURF CURF 1,2,3,4 4,2,1,0 FY97	DECOMM 7 4  RATIVE LI RENT YEA 1 2 3 1 1 0	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTHS BU BU FY99 1.2.3.4 1.0.0.0 3.4.0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  METHOD OF IMPLEMENTATION: AITS ONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ===>  FY96 & PRIOR FY97 FY06 FY01 FY02 FY03 FY97 FY98 FY99 FY00 FY01 FY02 FY98 FY99 FY07 FY98 FY99 FY07 FY97 FY96 & PRIOR FY97	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA 1 2 3 1 1 0	0.280 4.656 4.936 EADTIME: AR: FY98 2.3.4 .0.0.0 5,1.0.0	7	7.879 8.190 6 MONTH: BU: EY99 1.2.3.4 1.0.0.0 3.4.0,0  FY99 1.2.3.4 1.0.0.0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME OTAL INSTALLATION COST  OTAL PROCUREMENT COST  OTAL COST  METHOD OF IMPLEMENTATION: AITS ONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY02 FY03 OUTPUT ====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ===>>  FY96 & PRIOR FY97 FY98 FY99 FY99 FY00 FY01 FY02 FY03 FY98 FY99 FY99 FY99 FY00 FY97 FY98	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA 1 2 3 1 1 0	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTHS BUL BU. FY99 1.2,3,4 1.0,0,0 3.4,0,0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME OTAL INSTALLATION COST  OTAL PROCUREMENT COST  AETHOD OF IMPLEMENTATION: AITS ONTRACT DATE: PRIOR YEAR: CRODUCTION DELIVER DATE: PRIOR YEAR: NSTALLATION SCHEDULE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ====>  FY96 & PRIOR FY97 FY98 FY99 FY97 FY98 FY99 FY97 FY98 FY99 FY99 FY97 FY98 FY99 FY99	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA 1 2 3 1 1 0	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTH: BU: EY99 1.2.3.4 1.0.0.0 3.4.0,0  FY99 1.2.3.4 1.0.0.0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL COST  METHOD OF IMPLEMENTATION: AITS CONTRACT DATE: PRIOR YEAR: PRODUCTION DELIVER DATE: PRIOR YEAR:  NSTALLATION SCHEDULE: INPUT =====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ====>  FY96 & PRIOR FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY00 FY97 FY98 FY99 FY00	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA  1 2 3 3	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTH: BU: EY99 1.2.3.4 1.0.0.0 3.4.0,0  FY99 1.2.3.4 1.0.0.0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME TOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  METHOD OF IMPLEMENTATION:  MISSIONTRACT DATE:  PRIOR YEAR:  PRIOR YEAR:  NSTALLATION SCHEDULE:  INPUT =====>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY02  FY03  OUTPUT ====>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY97  FY98  FY99  FY00  FY01  FY97  FY98  FY99  FY00  FY01	45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA  1 2 3 3	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTH: BU: EY99 1.2.3.4 1.0.0.0 3.4.0,0  FY99 1.2.3.4 1.0.0.0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1,2,3,4	0 ETION LEA BUD BUD	0.000 0.000 ADTIME: GET YEAR 2: GET YEAR 2: FY02 1,2,3,4		0,000 0,000 12 MONTHS FY03 1,2,3,4		0.000 0.000 TC 1.2.3.4		0.000 0.000 TOTAL 54 4 7	65 56 0	4.078 55.240
NOTE: FY 96 EQUIPMENT AND PRIOR ASSETS INCLUDE FORME FOTAL INSTALLATION COST  TOTAL PROCUREMENT COST  TOTAL PROCUREMENT COST  TOTAL PROCUREMENT TOTAL  METHOD OF IMPLEMENTATION:  METHOD OF IMPLEMENTATION:  METHOD OF IMPLEMENTATION:  AITS  CONTRACT DATE:  PRIOR YEAR:  PRIOR YEAR:  INSTALLATION SCHEDULE:  INPUT =====>  FY96 & PRIOR  FY97  FY98  FY99  FY00  FY01  FY02  FY03  OUTPUT ====>  FY96 & PRIOR  FY97  FY98  FY99   45 1295 1296 FY96-PY 1,2,3,4 36,0,2,4	SETS FROM 1 2.940 42.705 45.645 ADMINISTR CURF CURF (CURF) 1,2,3,4 4,2,1,0  FY97 1,2,3,4	DECOMM 7 4  RATIVE LI RENT YEA  1 2 3 3	0.280 4.656 4.936 EADTIME: AR: FY98 .2.3.4 .0.0.0 i.1.0.0	7	7.879 8.190 6 MONTH: BU: EY99 1.2.3.4 1.0.0.0 3.4.0,0  FY99 1.2.3.4 1.0.0.0	0 S DGET YEA DGET YEA	0.000 0.427 AR 1: AR 1: FY00 1,2,3,4 0,0,2,0	0 12/97 12/98 	0.000 0.120 PRODUC FY01 1.2,3,4	0 ETION LEAR BUD BUD	0.000 0.000 ADTIME: GGET YEAR 2: FY02 1,2,3,4	0	0,000 0,000 12 MONTHS FY03 1,2,3,4	0	0.000 0.000 TC 1.2,3,4 TC 1.2,3,4	0	0.000 0.000 	65 56 0	4.078 55.240	

P-1 SHOP	PING LIST
ITEM NO.	PAGE NO.
11	7

CLASSIFICATION: UNCLASSIFIED February 1997 INDIVIDUAL MODIFICATION SUBMARINE PERISCOPE & IMAGING EQUIPMENT/81PL SUBMARINE PERISCOPES & IMAGING EQUIPMENT MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED: SSIXS ANTENNA, PL008 DESCRIPTION/JUSTIFICATION: Provides broadcast reception for the Type 18 Periscope with a UHF reception capability DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TO In Production FY96 COMP COMP TOTAL TOTAL QTY & PRIOR QTY QTY FY99 QTY FY00 QTY FY01 QTY FY02 QTY FY03 QTY FINANCIAL PLAN (IN MILLIONS) RDT&E 0.000 PROCUREMENT QUANTITY 0.467 0.467 0.000 INSTALLATION KITS 0.000 INSTALLATION KITS NONRECURRING 0.000 EQUIPMENT 0.372 0.372 EQUIPMENT NONRECURRING 0.000 ENGINEERING CHANGE ORDERS 0.000 DATA 0.000 TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0.000 OTHER; SPARE INTERIM CONTRACTOR SUPPORT 0.095 0.095 0.000 INSTALLATION OF HARDWARE FY96 EQUIPMENT AND PRIOR 0.262 0.262 FY97 EQUIPMENT FY98 EQUIPMENT 0.000 0.000 FY99 EQUIPMENT 0.000 FY00 EQUIPMENT 0.000 FY01 EQUIPMENT 0.000 FY02 EQUIPMENT FY03 EQUIPMENT 0.000 0.000 TO COMPLETE NOTE: THE TOTAL PROGRAM QUANTITY REFLECTS THE INVENTORY OBJECTIVE FOR THIS ITEM 0.000 TOTAL INSTALLATION COST 0.000 0.000 0.000 0.000 0.262 0.262 TOTAL PROCUREMENT COST 0.467 0 0.000 0 0 0.000 0 0.000 0.000 0.000 0.000 0.000 0.000 0.467 TOTAL COST 0.729 0.000 0.000 0.000 0.000 0.000 0.000 0.000 5.950 6,679 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 6 MONTHS PRODUCTION LEADTIME: 12 MONTHS AITs CONTRACT DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR 1: BUDGET YEAR 2: PRODUCTION DELIVER DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR 1: BUDGET YEAR 2: INSTALLATION SCHEDULE: INPUT =====> FY96/PY FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 TOTAL FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY02

> P-1 SHOPPING LIST ITEM NO. PAGE NO. 11

FY99

1.2.3.4

FY00

1.2.3.4

FY01 1,2,3,4

FY02 1,2,3,4

FY03 OUTPUT =====

FY96 & PRIOR FY97 FY98 FY99 FY00 FY01 FY03

FY96/PY

1,2,3,4 0,0,0,1

FY97

1.2.3.4

FY98

1.2.3.4

CLASSIFICATION: UNCLASSIFIED EXHIBIT P-3A

TOTAL

1,2,3,4

February 1997

CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION
SUBMARINE PERISCOPE & IMAGING EQUIPMENT/81PL
MODIFICATION TITLE: SUBMARINE PERISCOPES & IMAGING EQUIPMENT
MODELS OF SYSTEM AFFECTED: PERISCOPE FCK, PL011
DESCRIPTION/JUSTIFICATION: Provides obsolescence related upgrades to the Type 18 Periscope INDIVIDUAL MODIFICATION

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES		FY96 TY & PRIOR	OTY F	FY97 (	TY FY9	OTY	FY99	OTY	FY00	QTY	FY01	OTY	FY02	OTY	FY03	TO COMP QTY	TO COMP COST	TOTAL OTY	TOTAL COST
FINANCIAL PLAN (IN MILLIONS)		II &IRIOR	QII I	.177		QII	11//	QII	1100	QII	1101	QII	1102	QII	1103	QII	C031	QII	0031
<u>RDT&amp;E</u>																		0	0.000
<u>PROCUREMENT</u>	2	96 2.014	239 1	1.501	174 0.87	197	1.054	198	0.506	236	1.158	173	1.300	237	1.329	VAR	0.000	1750	9.739
QUANTITY																		0	0.000
INSTALLATION KITS																		0	0.000
INSTALLATION KITS NONRECURRING																		0	0.000
EQUIPMENT	2	96 2.014	239 1	1.501	174 0.87	197	1.054	198	0.506	236	1.158	173	1.300	237	1.329	VAR	0.000	1750	9.739
EQUIPMENT NONRECURRING																		0	0.000
ENGINEERING CHANGE ORDERS																		0	0.000
DATA																		0	0.000
TRAINING EQUIPMENT SUPPORT EQUIPMENT																		0	0.000
OTHER																		0	0.000
INTERIM CONTRACTOR SUPPORT																		0	0.000
INTERIM CONTRACTOR SUFFORT																		- 0	0.000
INSTALLATION OF HARDWARE																			
FY96 EQUIPMENT AND PRIOR	ç	0.386	200 1	1.163														296	1.549
FY97 EQUIPMENT					239 1.36													239	1.361
FY98 EQUIPMENT						174	0.643											174	0.643
FY99 EQUIPMENT								197	2.646									197	2.646
FY00 EQUIPMENT										198	0.941							198	0.941
FY01 EQUIPMENT												236	0.664					236	0.664
FY02 EQUIPMENT														173	0.662			173	0.662
FY03 EQUIPMENT																237	0.906	237	0.906
TO COMPLETE																		VAR	0.000
NOTE: THE TOTAL PROGRAM QUANTITY REFLECTS THE INV																			
TOTAL INSTALLATION COST	9	0.386	200 1	.163	239 1.36	174	0.643	197	2.646	198	0.941	236	0.664	173	0.662	237	0.906	1750	9.372
TOTAL PROCUREMENT COST	25	96 2.014	239 1	.501	174 0.877	197	1.054	198	0.506	236	1.158	173	1.300	237	1.329	0	0.000	1750	9.739
TOTAL COST		2.400		2.664	2.23		1.697		3.152		2.099		1.964		1.991		0.600		18.805
METHOD OF IMPLEMENTATION: AITs		ADMINIST	RATIVE LEAD	OTIME:	6 MON	HS			PRODU	CTION LE	ADTIME:		12 MONTHS						
CONTRACT DATE: PRIOR YEA			RENT YEAR:			BUDGET YE	EAR 1:	12/97			DGET YEAR 2:		12/98						
PRODUCTION DELIVER DATE: PRIOR YEAR	R: 12/96	CUR	RENT YEAR:	1	2/97	BUDGET YE	EAR 1:	12/98		BUI	DGET YEAR 2:		12/99						
INSTALLATION SCHEDULE:																			
INPUT =====>	FY96/PY	FY97		FY98	FY9		FY00		FY01		FY02		FY03		TC				
	1,2,3,4	1,2,3,4	1,2,3	,4	1 ,2 ,3 ,4		1,2,3,4		1,2,3,4		1,2,3,4		1,2,3,4		1,2,3,4		TOTAL		
FY96 & PRIOR	24,24,24,24	50,50,50,50		_				_		_							296	_	
FY97			60,60	0,60,59													239		
FY98					43,43,44	44											174		
FY99							49,49,49,5	0									197		
FY00									49,49,50,5								198		
FY01											59,59,59,59						236		
FY02													43,43,43,44				173		
FY03															59,59,59,60		237		
OUTPUT ====>	FY96/PY	FY97		FY98	FY9		FY00	-	FY01	_	FY02		FY03		TC				
THE C. PRIOR	1,2,3,4	1,2,3,4	1,2,3	,4	1,2,3,4		1,2,3,4	-	1,2,3,4	-	1,2,3,4		1,2,3,4		1,2,3,4		TOTAL	-	
FY96 & PRIOR	24,24,24,24	50,50,50,50															296		
FY97			60,60	0,60,59	10.15												239		
FY98					43,43,44	44	10 10 1-	0									174		
FY99							49,49,49,5	0	10.10.5								197		
FY00									49,49,50,5		50 50 50 50						198 236		
FY01 FY02											59,59,59,59		12 12 12 14				236 173		
FY02 FY03													43,43,43,44		59,59,59,60		173 237		
F 1 U.3															J9,39,39,0U		237		

P-1 SHOPPING LIST ITEM NO. PAGE NO.

59,59,59,60 CLASSIFICATION: UNCLASSIFIED

EXHIBIT P-3A

CLASSIFICATION:			UNCLASSI	-IED					
		BUDGET IT	EM JUSTIFICATI	ON SHEET			DATE:		
		P-40							
							FEBRUARY	′ 1997	
APPROPRIATION/BUD	GET ACTIVITY				P-1 ITEM NO	MENCLATURE			
OTHER PROCUREMEN	NT NAVY BA 1: SHI	P SUPPORT EQ	UIPMENT		FIRE FIGHT	ING EQUIPMENT	81HB/0910		
	1996	1997	1998	1999	2000	2001	2002	2003	
QUANTITY									
COST (In Millions)									
	\$15.3	\$9.0	\$14.1	\$16.5	\$17.3	\$10.6	\$9.4	\$6.7	

CNO, Surface Ship Survivability Flag Level Committee, and top echelons of the Navy directed that a number of survivability improvements be incorporated into mission essential ship and combat systems during their acquisition and modernization. Shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.

The Fire Fighters Breathing Apparatus (FFBA) (HB008) is a self-contained, compressed air breathing device compatible with the fire fighter protective wear and helmet, and other damage control equipment. The FFBA is a commercially available device which has been tested and certified by the National Institute for Occupational Safety and Health (NIOSH) and is in accordance with the National Fire Protection Association (NFPA) Standard 1981 for a fire fighter's breathing apparatus.

The FFBA will provide breathable air to the fire fighter for a longer period of time than the OBA, with fewer physical demands on the user. It will provide air at a rate satisfying requirements of the user for duration of up to one hour. Equipment supporting the FFBA includes: booster pumps for ships with HP air system, portable diesel compressors for all ships when ships power is lost and portable electric compressors for recharging purposes for all ships (ships with HP air systems when HP air is down and all other ships as primary source of recharge air) and a filter kit which provides breathing quality air to the booster pumps/compressors for use in recharging the FFBA air cylinders.

### INSTALLATION OF EQUIPMENT- HB5IN:

Funding is for installation of equipment including Fleet Modernization Program installations, installation of training equipment, and installation of equipment in other shore facilities.

HBDSA - The Budget reflects the transfer of design services allocation into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 and out.

> P-1 SHOPPING LIST ITEM NO. PAGE NO. 12

**CLASSIFICATION:** 

CLASSIFICATION: UNCLASSIFIED

	SYSTEMS COST ANALYSIS	DDOCDAM	COST DD	FAKDOWN					DATE:	
EXHIBIT (I	•	PROGRAM	COSTBR	EAKDOWN					FEBRUAF	RY 1997
APPROP	RIATION/BUDGET ACTIVITY			P-1 ITEM NOMI	ENCLATU	RE/SUBHEAD				
OTHER PI	ROCUREMENT NAVY BA 1: SHIF	S SUPPORT	EQUIPME	FIREFIGHTING	EQUIPME	NT 81HB/0910				
					TOTAL CO	OST IN THOUSA	NDS OF D	OOLLARS		
COST CODE	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS
	SURFACE (N86)									
HB008 HB830	BREATHING APPARATUS PRODUCTION ENGINEERING			385				174	13	2,468 95
	SUBTOTAL N86			385				174		2,563
	TOTAL EQUIPMENT									2,563
HB5IN	INSTALLATION OF EQUIPMEN	 Г		14,904		8,984		11,300		11,600
HBDSA	DESIGN SERVICES ALLOCATION	) DN						2,607		2,318
	TOTAL INSTALLATI	ON .						13,907		13,918
	GRAND TOTAL			15,289		8,984		14,081		16,48
	•	P-1 SHOPP	ING LIST			<u>.                                      </u>	Exhibit P-	5 Weapon Syster	m Cost An	alysis

-1 SHOPPING LIST

12

ITEM NO. PA

PAGE NO. 2 Exhibit P-5 Weapon System Cost Analysis CLASSIFICATION:

UNCLASSIFIED

Exhibit P-5A	Procurement History and Planning		BUDGET PRO	CUREMENT HIS	TORY AND PLA	ANNING				DATE	
				P-5A						FEBRUARY '	1997
	TION/BUDGET ACTIVITY				P-1 ITEM NOM	ENCLATURE			SUBHEAD		
OTHER PROC	CUREMENT NAVY BA 1: SHIPS SUPP	ORT EUQIPMENT			FIRE FIGHTING	2				91	HB/0910
			CONTRACT		TIKETIOITING	DATE OF	1	l	SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	UNIT	AVAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY		COST	NOW	REQ'D	AVAILABLE
									1		<u> </u>
	<u>N86</u>										
HB008	FIRE FIGHTERS BREATHING APPARATUS										
	EV 4000	DDNOWO CCC FI	RCP	DDNSWC	law 00	A 00	40	189,846	YES	NO	
	FY 1999	DDNSWC, CSS, FL	RCP	DDNSWC	Jan-99	Apr-99	13	189,846	TES	NO	
REMARKS	•	•		•	-				•		

P-1 SHOPPING LIST PAGE NO. ITEM NO.

3

CLASSIFICATION:
Exhibit P-5A Procurement History and Planning
UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIE P3A	D	INDIVIDUAL	MODIFICA	TION															FF	BRUARY 1	997
ODIFICATION TITLE: FIREFIGHTIN IODELS OF SYSTEM AFFECTED: H Ialon 1301 Firefighting Systems Incl	IALON (HB001) ude New Time	Delays, Liquid			lalon/13	01 Con	nservatio	n												BRUART	997
EVELOPMENT STATUS/MAJOR DE	VELOPMENI		FY 96 & PRIOR	OTV	EV 07	OTV	EV 00 /	OTV	EV 00	OTV EV	00 0	TV	EV 01	OTV	EV 02	OTV		TO COMP	TO COMP COST	TOTAL QTY	TOTA
INANCIAL PLAN (IN MILLIONS)		QIT	& PRIUR	QIT	F1 97	QII	F1 96 (	QIT	F1 99	QIT FT	00 C	<i>(</i>   1	FIUI	QII	F1 U2	QII	F1 U3	QII	CUST	QII	CUS
PDT&E																				0	0.0
ROCUREMENT																				ő	0.0
QUANTITY																				0	0.0
NSTALLATION KITS NSTALLATION KITS NONRECURRI	NC																			0	0.0
EQUIPMENT	NG		2.6																	0	2.6
QUIPMENT NONRECURRING			2.0																	ŏ	0.0
ENGINEERING CHANGE ORDERS																				0	0.0
DATA																				0	0.0
FRAINING EQUIPMENT SUPPORT EQUIPMENT																				0	0.0
OTHER																				0	0.0
INTERIM CONTRACTOR SUPPORT																				Ö	0.0
NSTALLATION OF HARDWARE																					
FY96 EQUIPMENT & PRIOR			8.7		1.2		6.4		0.9	0.	1		0.9		1.7		1.7			0	21.6
Y97 EQUIPMENT																				0	0.0
Y98 EQUIPMENT																				0	0.0
FY99 EQUIPMENT FY 00 EQUIPMENT																				0	0.0
FY01 EQUIPMENT																				0	0.0
FY 02																				ŏ	0.0
FY 03 EQUIPMENT																					
TO COMPLETE										_											
OTAL INSTALLATION COST			8.7		1.2		6.4		0.9	0.	1		0.9		1.7		1.7		0.0		21.6
OTAL PROCUREMENT COST			2.6		0.0		0.0		0.0	0.			0.0		0.0		0.0		0.0		2.6
OTAL COST			11.3		1.2		6.4		0.9	0.	.1		0.9		1.7		1.7		0.0		24.2
ETHOD OF IMPLEMENTATION:AR							ADTIME:				UCTIO		ADTIME								
ONTRACT DATE: VAR	PRIOR YEA				NT YEA				ET YEA				BUDGI								
RODUCTION DELIVER DATE:	PRIOR YEA	KR:		CURRE	ENT YEA	KR:	В	SUDGE	ET YEA	KK:			BUDGI	EI YEA	AR 2:						
STALLATION SCHEDULE:										_											
INPUT =====>		FY96	FY97		FY98		FY99		FY00	FY		4	FY02		FY03		TC	<u>,</u>	TOTAL		
		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	<u>'</u>	, 2, 3, 4	1, 2,	3, 4		, 2, 3, 4		1, 2, 3, 4		1, 2, 3,	-	IOIAL	=	
OUTPUT ====>		FY96	FY97		FY98		FY99		FY00	FY	01		FY00		FY01		тс				
33 3. =====		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		, 2, 3, 4			1	, 2, 3, 4		1, 2, 3, 4		1, 2, 3,	4	TOTAL	-	
																					P-3
										ITFM PA								CLASS	IFICATION	OWNCLA	SSIFI

P3A MODIFICATION TITLE: FIREFIGHTING		UAL MODIF	ICATION								F	EBRUARY 1
MODELS OF SYSTEM AFFECTED: AFF			HTING (HB	005)								
DESCRIPTION/JUSTIFICATION: Hardw					Verinozzl	e Bridge P	anels and S	anitary Solid E	Block for	Storage		
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT		ES:			-		•		то то		
		FY 96								COMPCOMP		
	QT	Y& PRIORQ	TY FY 97 Q	TY FY 98Q1	TYFY 99Q1	TYFY 00 Q	TY FY 01QT	Y FY 02 QT\	FY 03	QTY COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)												
RDT&E											VAR	0.0
PROCUREMENT											0	0.0
QUANTITY											Ö	0.0
INSTALLATION KITS											0	0.0
INSTALLATION KITS NONRECURRING	;										0	0.0
EQUIPMENT		9.1									0	9.1
EQUIPMENT NONRECURRING											0	0.0
ENGINEERING CHANGE ORDERS											0	0.0
DATA											0	0.0
TRAINING EQUIPMENT											0	0.0
SUPPORT EQUIPMENT											0	0.0
OTHER INTERIM CONTRACTOR SUPPORT											0	0.0 0.0
INTERIM CONTRACTOR SUPPORT											U	0.0
NSTALLATION OF HARDWARE												
FY96 EQUIPMENT		6.2	7.8	7.5	8.0	7.0	5.5	3.8	5.0		0	50.8
FY97 EQUIPMENT		0.2	7.0	7.0	0.0	7.0	0.0	5.0	5.0		Ö	0.0
FY98 EQUIPMENT											ŏ	0.0
FY99 EQUIPMENT											0	0.0
FY 00 EQUIPMENT											0	0.0
FY 01 EQUIPMENT											0	0.0
FY 02											0	0.0
FY 03												0.0
TO COMPLETE												
OTAL INSTALLATION COST		6.2	7.8	7.5	8.0	7.0	5.5	3.8	5.0	0.0		50.8
OTAL PROCUREMENT COST		9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9.1
OTAL PROCUREMENT COST		15.3	7.8	7.5	8.0	7.0	5.5	3.8	5.0	0.0		59.9
01AL 0031		13.3	7.0	7.3	0.0	7.0	3.3	3.0	3.0	0.0		33.3
METHOD OF IMPLEMENTAATRON:		А	DMINISTR A	TIVE LEA	DTIMEPR	ODUCTIO	N LEADTIME	<b>:</b>				
CONTRACT DATE: AR PRIOR Y	EAR:		URRENT Y		UDGET YI			YEAR 2:				
RODUCTION DELIVER DWATE: PRIOR Y	EAR:	С	URRENT Y	EAR: BI	UDGET YI	EAR:	BUDGE1	YEAR 2:				
NSTALLATION SCHEDULE:												
INPUT =====>	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TC			
	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, <u>2, 3,</u> 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3,	4 TOTAL		
OUTPUT ====>	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	TC			
	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1. 2. 3. 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3,	4 TOTAL		
	, <u>-,-,</u> .	,-,-, .	<u>, -, -,</u> .	<u>, -, -,</u> .	, <u>-,-,</u> .	<u>, -, -, -</u>	<u>, -, -,</u> .	, -, -, -	., _, •,	- <u> </u>		
			ITI	EM PA	GE							P-3A
				2 5	-		ASSIFICAT	1011				

CLASSIFICATION: UNCLASSIFIED P3A MODIFICATION TITLE: FIREFIGHTING EQUIPM	INDIVIDUAL MO															FEBRU	JARY 1	997
MODELS OF SYSTEM AFFECTED: FIRE FIGHT DESCRIPTION/JUSTIFICATION: Breathing App DEVELOPMENT STATUS/MAJOR DEVELOPME	ER'S BREATHIN aratus, stowage NT MILESTONES FY 96	lockers, recha	S (FFBA) HI ging Air Co	B008 ompress	ors and	d Boost	er are recha	arging ed	luipme	nt					TO COMP	TO COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	& PRIO		97 QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
RDT&E.																	0	0.0
PROCUREMENT QUANTITY INSTALLATION KITS					13		15		2		1						0 31 0	0.0 0.0 0.0
INSTALLATION KITS NONRECURRING EQUIPMENT						2.5		3.9		1.2		1.2					0	0.0 8.8
EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS																	0 0 0	0.0 0.0 0.0
DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT																	0	0.0 0.0
OTHER INTERIM CONTRACTOR SUPPORT																	0 0	0.0 0.0
NSTALLATION OF HARDWARE																		
FY96 EQUIPMENT & PRIOR FY97 EQUIPMENT																	0	0.0 0.0
FY98 EQUIPMENT FY99 EQUIPMENT					13	5.0											0 13	0.0 5.0
FY 00 EQUIPMENT FY01 EQUIPMENT FY 02 EQUIPMENT							15	6.3	1	1.9	1	1.4 1.3					15 2 1	6.3 3.3 1.3
FY 03 TO COMPLETE											•							
TOTAL INSTALLATION COST	0.0	0.0		0.0		5.0		6.3		1.9		2.7					31	15.9
TOTAL PROCUREMENT COST TOTAL COST	0.0 0.0	0. 0.		2.5 2.5		2.5 7.5		3.9 10.2		1.2 3.1		1.2 3.9						11.3 27.2
METHOD OF IMPLEMENTA TAON: CONTRACT DATE:VAR PRIOR YEAR PRODUCTION DELIVER DAVER PRIOR YEAR		CU	MINISTRAT RRENT YE RRENT YE	AR:		BUDGE	6 MOS. T YEAR: T YEAR:	PR	ODUC	TION LE	ADTIME BUDGE BUDGE	: T YEAR 2: JA T YEAR 2: AP	N 99 PR 99	3 MOS.				
INSTALLATION SCHEDULE: INPUT =====>		FY96	FY97		FY98		FY99		FY00		FY01	FY 02 FY 03		тс				
FY 96 & PRIOR FY 97		1, 2, 3, 4	1, 2, 3, 4	_ 1	1, 2, 3, 4		1, 2, 3, 4	1	, 2, 3,	1	1, 2, 3, 4	1, 2, 3, 41, 2, 3, 4	4	1, 2, 3, 4		TOTAL		
FY 98 FY 99 FY 00 FY 01 FY 02							13		15		1	1				0 13 15 2 1		
FY 03 TC																31		
OUTPUT ====>	FY95	FY96	FY97	-	FY98		FY99		FY00			FY 02 FY 03		TC		TOTAL		
FY 96 & PRIOR FY 97 FY 98	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4		I, 2, 3, 4		1, 2, 3, 4	'	, 2, 3,	•	1, 2, 3, 4	1, 2, 3, 4 <u>1, 2, 3, 4</u>	<u>.</u>	1, 2, 3, 4		0		
FY 99 FY 00 FY 01 FY 02							13		15		1 1	1				13 15 2 1		
FY 03 TC																31		
																		P-3A
				ITEM 12		PAGE 6										CLASSIF	ICATION: UNCLAS	

# CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86

		BUDGET I	TEM JUSTII	FICATION S	SHEET		DATE:	
		-					<b>FEBRUAR</b>	Y 1997
APPROPRIATION/BUDGET AC	TIVITY				P-1 ITEM NO	MENCLATUR	E	
OPN BA-1: SHIPS SUPPORT E	QUIPMENT				COMMAND AN	ID CONTROL S	WITCHBOARD	S 81GE
					BLI: 0925000			
			T					
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST	\$4.6	\$6.8	\$8.0	\$8.1	\$10.7	\$6.2	\$5.1	\$5.2

The Switchboard program provides mission critical switching capability required to link shipboard combat equipment including weapons, launchers, sensors, computers and navigation equipment. In essence, switchboards serve as the central connection point for most elements of combat and weapon systems, interior communications, data transfer, and command and control systems. They are designed to accommodate either analog or digital interfaces or a combination of both. In total, this budget item supports approximately 161 ships and 1,024 installed Switchboards throughout the acquisition life cycle.

Functions include: data routing; action cutout; test and operating mode selection (including casualty back-up modes); power monitoring and control; circuit protection; peripheral equipment isolation; and signal processing, frequency conversion amplification and switching. In summary, the primary purpose is to provide systems intra and interface compatibility.

Changes in other elements of the Combat and IC Systems will frequently mandate either conjunctive modification to switchboards via Ordnance Alteration/Field Change or partial or complete replacement of existing switchboards. Typical switchboard mods include hardware/field change kits, ORDALT instructions, technical manual updates and revisions to other supporting documentation. Such changes are usually required subsequent to the initial installation, either in the same or later ship overhauls or availability. New Switchboards are normally installed during a regular overhaul by a shipyard.

Command and Control Switchboards are currently installed on and are required for almost all surface combatants and amphibious warfare ships. Individual switchboard unit cost varies from ship to ship, depending upon size, complexity, and whether analog or digital interfaces or some combination thereof are utilized. Modifications to existing switchboards via ORDALTs or Field Changes are quantified by kits or change packages rather than individual units. Switchboard hardware is normally procured by the Invitation for Bids (IFB) process, from manufacturers on Qualified Products List (QPL)-17000. There are currently six companies listed on QPL-17000. All contracts awarded are competitive, fixed price.

PUC GE001 - Reliability, Maintainability, & Availability (RMA): Evaluate product improvement proposals designed to improve switching capability and availability, upgrade unreliable components and replace obsolete parts and items no longer in production.

PUC GE002 - Microprocessor/Fiber Optic Interface: Procure advanced technology switching devices such as the touchscreen microprocessor based Computer Switching Control Panel (CSCP). This upgrade meets NAVSEA affordability issues and is lighter, smaller and more easily adaptable for future system upgrades or configuration changes. Such upgrades will then require only Erasable Programmable chip changes as opposed to ORDALTs and mechanical switching as they do now, consequently lowering the lifecycle cost of these items. The microprocessor CSCP is a Non-Developmental Item (NDI) with built-in commercial off the shelf (COTS) components that will communicate with the command and control switchboard via copper or fiber optic cable. Non-recurring costs to design and develop a drawing and spec package (referenced in PUC GE003) to interface/integrate this unit into multiple switchboard configurations is reflected in FY 96-98 (\$250,000, \$360,000 and \$300,000, respectively). Total objective is 60 units for DD 963, FFG, DDG 993, LHD, LHA and CV/CVN Class ships at an estimated cost of \$100,000/unit starting in FY 98.

P-1 SHOPPING LIST ITEM NO. 13 PAGE NO. 1 CLASSIFICATION:

# CLASSIFICATION: UNCLASSIFIED

	BUDGET ITEM JUSTIFICATION S P-40	HEET	DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATUR	E
OPN BA-1: SHIPS SUPPORT EQUIPMENT		COMMAND AND CONTRO	L SWITCHBOARDS 81G
		BLI: 0925000	

PUC GE003 - Design, TM & MODs: This line covers the non-recurring costs to modify an existing or prepare a new design drawing and spec package to implement the switching scheme necessary for a ship's switchboard to properly integrate all elements of the Combat System. The design package is used to procure hardware modification kits (ORDALTs or Field Changes) and contains one or more of the following:

- Build-to-print drawings used in the manufacturing of hardware items.
- Installation control drawings .
- System test procedures.
- Technical/tactical operation manuals.

Additionally, Design Engineering and kit development for unauthorized modifications to Switchboard equipment will be covered under this line and will follow the criteria mentioned above to produce a drawing and spec package necessary to document the unauthorized change. The non-recurring costs associated with the design and production of the Microprocessor CSCP is not covered here but rather in PUC GE002.

PUC GE004, GE005, GE006, GE066, GE067, GE068, GE069: Provides for new switching requirements mandated in SHIPALTS, ORDALTS, and/or Warfare Improvement Plan (WIP)/Warfare Improvement Program Execution (WIPE) documents. Procure conjunctive switchboard ORDALTs, Engineering Changes and Field Changes for various combat system element upgrades including ACDS, BFTT, RAIDS, RAM, SSDS, SLQ 32 Upgrade, NTCS-A Jots II, EHF SATCOM, SPQ 9(B), RADDS, Enhanced OBT, C2P/JTIDS, INMARSAT, LAMPS MK III, NAVSSI and UYK 43 Upgrades. The total objective to support the mandated SHIPALTS and ORDALTS varies in quantity and cost per ship class. These quantities are established as the requirements are defined. The eighth and final DD 963 Class MK 59 ICSS Switchboard was procured in FY 1995 for \$395,000 (GE006). This board will not be installed on the DD 963 as planned. The MK 59 ICSS is configured for VLS while the DD 963 is incompatible with this configuration (non-VLS) and therefore will be designated as a battle spare. There were seven previous switchboard procurements; five (5) in FY 91 and two (2) in FY 93. Additionally, this line allows for the procurement of ORDALTs resulting from Engineering Change Proposals to fix equipment modified through unauthorized Switchboard modifications.

PUC GE830 - Production Engineering: Provide quality assurance oversight and burn-in testing of production switchboards and switching equipment. Monitor contractor compliance of manufacturing to as built drawings and delivery schedules.

PUC GE831 - Procure a panel mounted Solid State Synchro Signal Converter (SSSSC). Two production prototype units were developed in prior years. The SSSC provides signal amplification and conversion. This technology also provides an Analog to Digital conversion capability and a LAN/Fiber Optic interface capability for systems planned in the near future. The total objective to support upgrades is 25 units at an estimated unit cost of \$10,000 each beginning in FY 98.

PUC GE950 - This program supports material procurement of engineering solutions developed as part of the LHA Mid-life maintenance upgrade program. This program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFPAC initiative to resolve maintenance deficiencies, increase readiness, and reduce future maintenance costs enabling the ships to reach their service life.

PUC GEINS - FY 95 and outyear installation funding identified supports installation of ORDALTs/Enhancements/Upgrades for C&C Switchboards and new Switchboards installed via Ship Alteration (SHIPALT). This program also supports installation of engineering solutions developed as part of the LHA Mid-life maintenance upgrade program. The budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 and out.

P-1 SHOPPING LIST ITEM NO. 13 PAGE NO. 2

CLASSIFICATION:

**DD FORM 2446, JUN 86** 

P-1 SHOPPING LIST ITEM NO. 13 PAGE NO. 3 CLASSIFICATION:

# **UNCLASSIFIED**

	ATION/BUDGET ACTIVITY  1: SHIPS SUPPORT EQUIPMENT					OMENCLATURE D AND CONTRO	OL SWITCHBOA	RDS	SUBHEAD 81GE		RY 1997
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
GE950	FY 1997 Interior Voice Network	TBD	FFP	NAVSEA	TBD	TBD	1	2,791	NO	YES	12-95
GE002 GE950	FY 1998 Microprocessor/Fiber Optic Interior Voice Network	TBD TBD	FFP FFP	PHD NSWC NAVSEA	TBD TBD	TBD TBD	5 1	100 2,783	NO NO	YES YES	6-97 12-95
GE002 GE950	FY 1999 Microprocessor/Fiber Optic Interior Voice Network	TBD TBD	FFP FFP	PHD NSWC NAVSEA	TBD TBD	TBD TBD	7	100 2,825	NO NO	YES YES	6-97 12-95
REMAR	KS										

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 13 PAGE NO. 4

CLASSIFICATION: UNCLASSIFIED																				
P3A																				
MODIFICATION TITLE: C&C SWBDs (81GE) - ORDA	LTs & FIELD C	HANGES (0	GE001,	GE003-G	E006, (	GE066-G	E069, 0	GE830, C	3E900,	GEINS)										
MODELS OF SYSTEM AFFECTED: DD 993/DD 963/0	CG/CGN/LHA/L	CC/LHD/FF	G																	
DESCRIPTION/JUSTIFICATION: ORDALTs/ENHANC	EMENTS/UPG	RADES FO	R C&C	SWITCH	BOARE	os														
DEVELOPMENT STATUS/MAJOR DEVELOPMENT N	MILESTONES:																TO	TO		
		FY 96															COMP	COMP	TOTAL	TOTAL
	QTY	& Prior	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.000
PROCUREMENT																			429	36.062
QUANTITY																			0	0.000
INSTALLATION KITS	111	2.392	40	1.003	44	1.095	46	1.155	47	1.170	47	1.170	47	1.200	47	1.248			429	10.433
INSTALLATION KITS NONRECURRING		6.783		2.338		2.100		2.205		2.363		2.361		3.048		3.087			0	24.285
EQUIPMENT																			0	0.000
EQUIPMENT NONRECURRING																			0	0.000
ENGINEERING CHANGE ORDERS																			0	0.000
DATA																			0	0.000
TRAINING EQUIPMENT																			0	0.000
SUPPORT EQUIPMENT																			0	0.000
OTHER																			0	0.000
INTERIM CONTRACTOR SUPPORT		1.344																	0	1.344
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR	55	0.276	48	0.289	8	0.048													111	0.613
FY97 EQUIPMENT	00	0.2.0		0.200	40	0.240													40	0.240
FY98 EQUIPMENT					5	0.028	35	0.207	4	0.024									44	0.259
FY99 EQUIPMENT									26	0.157	20	0.120							46	0.277
FY00 EQUIPMENT											12	0.070	35	0.210					47	0.280
FY01 EQUIPMENT													21	0.128	26	0.156			47	0.284
FY02 EQUIPMENT															36	0.213	11	0.066	47	0.279
FY03 EQUIPMENT																	47	0.300	47	0.300
TO COMPLETE																			0	0.000
TOTAL INSTALLATION COST		0.276		0.289		0.316		0.207		0.181		0.190		0.338		0.369		0.366	429	2.532
TOTAL PROCUREMENT COST		10.519		3.341		3.195		3.360		3.533		3.531		4.248		4.335		0.000		36.062
TOTAL COST		10.795		3.630		3.511		3.567		3.714		3.721		4.586		4.704		0.366		38.594
METHOD OF IMPLEMENTATION: AIT					ADMIN	NISTRATI	VE LE	ADTIME	N/A				PROD	UCTION	LEAD	TIME: N/	Α			
CONTRACT DATE: N/A	PRIOR YEA	R: N/A				ENT YEA				ET YEA	R: N/A	١				R 2: N/A				
PRODUCTION DELIVER DATE: N/A	PRIOR YEA					ENT YEA				ET YEAI						R 2: N/A				
INSTALLATION SCHEDULE:																				
INSTALLATION SCHEDULE:  INPUT =====>	FY95	FY96		FY97		FY98		FY99		FY00		FY01		FY02		TC				
INF 01>	1, 2, 3, 4	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3,	1	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4	1	TOTAL		
	1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4				DALTS	*	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 2	•	1, 2, 3, 2	•	TOTAL	_	
OUTPUT ====>	FY95	FY96	_	FY97	-	FY98	_	FY99		FY00		FY01		FY02	-	TC	_	TO		
	1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4	ŀ	1, 2, 3, 4		1, 2, 3, 4 DALTS	1	1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4	ļ	TOTAL	-	
						VARIO	US UR	DALIS												
* Advanced Planning																				
7.GVGIIOOG FIGHTIIIIG																				P-3A
																				. 0, (

PAGE: 5

CLASSIFICATION: UNCLASSIFIED																				
P3A																				
MODIFICATION TITLE: C&C SWBDs (81GE) - Micropro	cessor/Fiber C	Optic Interfa	ace (GE	002)																
MODELS OF SYSTEM AFFECTED: DD 993/DD 963/CG	SN/LHA/LCC/L	HD/FFG																		
DESCRIPTION/JUSTIFICATION: ORDALTs/ENHANCE	MENTS/UPGF	RADES FO	R C&C	SWITCHE	BOARD	S														
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MI	LESTONES:																то	TO		
		FY 96															COMP		TOTAL	TOTAL
	QTY		QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03		COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.000
PROCUREMENT																			60	6.910
QUANTITY																			0	0.000
INSTALLATION KITS																			0	0.000
INSTALLATION KITS NONRECURRING																			0	0.000
EQUIPMENT					5	0.500	7	0.700	5	0.500	5	0.500	5	0.500	5	0.500	28	2.800	60	6.000
EQUIPMENT NONRECURRING		0.250		0.360		0.300													0	0.910
ENGINEERING CHANGE ORDERS																			0	0.000
DATA																			0	0.000
TRAINING EQUIPMENT																			0	0.000
SUPPORT EQUIPMENT																			0	0.000
OTHER																			0	0.000
INTERIM CONTRACTOR SUPPORT																			0	0.000
INSTALLATION OF HARDWARE																				
FY95 EQUIPMENT & PRIOR																			0	0.000
FY96 EQUIPMENT																			0	0.000
FY97 EQUIPMENT																			0	0.000
FY98 EQUIPMENT							5	0.025											5	0.025
FY99 EQUIPMENT								0.020	7	0.035									7	0.035
FY00 EQUIPMENT									•	0.000	5	0.025							5	0.025
FY01 EQUIPMENT												0.023	5	0.025					5	0.025
FY02 EQUIPMENT													3	0.023	5	0.025			5	0.025
TO COMPLETE															J	0.023	33	0.165	33	0.025
TO COMPLETE																	33	0.105	33	0.165
TOTAL INSTALLATION COST		0.000		0.000		0.000		0.025		0.035		0.025		0.025		0.025		0.165	60	0.300
TOTAL PROCUREMENT COST		0.250		0.360		0.800		0.700		0.500		0.500		0.500		0.500		2.800		6.910
TOTAL COST		0.250		0.360		0.800		0.725		0.535		0.525		0.525		0.525		2.965		7.210
		0.230								0.555								2.903		7.210
METHOD OF IMPLEMENTATION: AIT						IISTRATI							PROD			TIME: N				
CONTRACT DATE: N/A	PRIOR YEAR					ENT YEA				ET YEAF						AR 2: N/A				
PRODUCTION DELIVER DATE: N/A	PRIOR YEAR	R: N/A			CURRI	ENT YEA	R: N/A		BUDG	ET YEAF	R: N/A			BUDGE	T YE	AR 2: N/A	Ą			
INSTALLATION SCHEDULE:																				
INPUT =====>	FY94	FY95		FY96		FY97		FY98		FY99		FY00		FY01		TC				
	1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1	1, 2, 3, 4	1	TOTAL		
						VARIO	US OR	DALTS												
CUTPUT	E)/0.4	F)/05		EV/06		EV/07		EV/00		E\/00		EV/00		F)/04		TO				
OUTPUT ====>	FY94	FY95	-	FY96		FY97		FY98		FY99		FY00		FY01		TC	-	TOTAL		
	1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3,	<u>+</u>	TOTAL	_	
						VARIO	US UR	DALTS												
																				P-3A
																				r -3M

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVIDU																		
MODIFICATION TITLE:	(81GE) -LHA MID-LII		,	950 INT	ERIOR	VOICE I	IETWO	DRK)												
MODELS OF SYSTEM AFFECTED:	LHA 1-5 AN/STC-1 F	EPLACEME	NT																	
DESCRIPTION/JUSTIFICATION:	LHA INTERIOR VOIC	E NETWOR	K																	
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT MILESTONES	3:															TO	TO		
52 v 22 6 v 11 2 1 v 1 6 1 v 1 7 6 6 7 1 1 1 1 6 6 1 V 2 2 V 2 2		FY96																	TOTAL	TOTAL
	ОТ	Y &PRIOR	OTV	FV 97	OTY	FV 08	OTV	FVQQ	OTV	EV 00	OTV	FV 01	OTV	EV 02	OTV	EV 03			QTY	COST
	<u>Q1</u>	I AFRIOR	QII	1 1 31	QII	1 1 30	QII	1 1 9 9	QII	1 1 00	QII	1101	QII	1102	QII	1103	QII	0031	QII	0001
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
QUANTITY			1		1		1		2										5	0.000
INSTALLATION KITS																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT			1	2.791	1	2.783	1	2.825	2	5.666									5	14.065
EQUIPMENT NONRECURRING				2.731		2.700		2.020		5.000									0	0.000
ENGINEERING CHANGE ORDERS																			0	0.000
DATA																			0	0.000
TRAINING EQUIPMENT																			0	0.000
SUPPORT EQUIPMENT																			0	0.000
OTHER																			0	0.000
INTERIM CONTRACTOR SUPPORT																			0	0.000
INSTALLATION OF HARDWARE																				
FY95 EQUIPMENT & PRIOR																			0	0.000
FY96 EQUIPMENT																			0	0.000
					4	0.055													1	
FY97 EQUIPMENT						0.955														0.955
FY98 EQUIPMENT							1	0.997											1	0.997
FY99 EQUIPMENT									0	0.828	3	1.915							3	2.743
FY00 EQUIPMENT																			0	0.000
FY01 EQUIPMENT																			0	0.000
FY02 EQUIPMENT																			0	0.000
TO COMPLETE																			0	0.000
																			0	0.000
TOTAL INSTALLATION COST		0.000		0.000		0.955		0.997		0.828		1.915		0.000		0.000		0.000	5	4.695
TOTAL PROCUREMENT COST										5.666		0.000		0.000						14.065
		0.000																		
		0.000		2.791		2.783		2.825								0.000		0.000		
TOTAL COST		0.000		2.791		3.738		3.822		6.494		1.915		0.000		0.000		0.000		18.760
TOTAL COST					4514	3.738		3.822				1.915		0.000	_	0.000				
TOTAL COST  METHOD OF IMPLEMENTATION:	Tiger Team	0.000				3.738 INISTRA		3.822 EADTIME		6.494		1.915 PRODUC	TION L	0.000 EADTIM		0.000 TBD				
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97	PRIOR YE	0.000 EAR:			CUR	3.738 INISTRA RENT YE	AR: N	3.822 EADTIME	BUD	6.494 GET YE <i>F</i>	AR: N	1.915 PRODUC <sup>*</sup> I/A	ΓΙΟΝ L	0.000 EADTIM BUDGE	T YEAR	0.000 TBD 2: TBE				
TOTAL COST  METHOD OF IMPLEMENTATION:		0.000 EAR:			CUR	3.738 INISTRA	AR: N	3.822 EADTIME	BUD	6.494	AR: N	1.915 PRODUC <sup>*</sup> I/A	TION L	0.000 EADTIM BUDGE	T YEAR	0.000 TBD				
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97	PRIOR YE	0.000 EAR:			CUR	3.738 INISTRA RENT YE	AR: N	3.822 EADTIME	BUD	6.494 GET YE <i>F</i>	AR: N	1.915 PRODUC <sup>*</sup> I/A	TION L	0.000 EADTIM BUDGE	T YEAR	0.000 TBD 2: TBE				
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD	PRIOR YE	0.000 EAR:			CUR	3.738 INISTRA RENT YE	AR: N	3.822 EADTIME	BUD	6.494 GET YE <i>F</i>	AR: N	1.915 PRODUC <sup>*</sup> I/A	ΓΙΟΝ L	0.000 EADTIM BUDGE	T YEAR	0.000 TBD 2: TBE				
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE:	PRIOR YE	0.000 EAR: EAR:		2.791 FY97	CURF	3.738 INISTRATE RENT YE RENT YE FY98	AR: N	3.822 EADTIME /A	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)			
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE:	PRIOR YE	0.000 EAR: EAR: FY96		2.791	CURF	3.738 INISTRA RENT YE RENT YE	AR: N	3.822 EADTIME /A FY99	BUD	6.494 GET YEA GET YEA	AR: N	1.915 PRODUC <sup>*</sup> I/A I/A	_	0.000 EADTIM BUDGE BUDGE	T YEAR T YEAR	0.000 TBD 2: TBE 2: TBE	)	0.000		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE RENT YE RENT YE FY98	AR: N	3.822 EADTIME /A FY99	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======> FY 96 & PRIOR	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE RENT YE RENT YE FY98	AR: N	3.822 EADTIME /A FY99 1, 2, 3, 4	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97 FY 98	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A I/A FY01 1, 2, 3, 4	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL 1 1		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99	PRIOR YE	0.000 EAR: EAR: FY96	Ī. Ī	2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99 1, 2, 3, 4	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01 1, 2, 3, 4	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL  1 1 1		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99 1, 2, 3, 4	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A I/A FY01 1, 2, 3, 4	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL 1 1 1 2		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90 FY 00 FY 01	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99 1, 2, 3, 4	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01 1, 2, 3, 4	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL 1 1 1 2 0		
TOTAL COST  METHOD OF IMPLEMENTATION: CONTRACT DATE: TBD in FY 97 PRODUCTION DELIVER DATE: TBD INSTALLATION SCHEDULE: INPUT ======>  FY 96 & PRIOR FY 97 FY 98 FY 99 FY 90	PRIOR YE	0.000 EAR: EAR: FY96		2.791 FY97	CURF	3.738 INISTRATE THE RENT YE FY98 1, 2, 3, 4	AR: N	3.822 EADTIME /A FY99 1, 2, 3, 4	BUD	6.494  GET YEA  GET YEA  FY00	AR: N	1.915 PRODUC' I/A I/A FY01 1, 2, 3, 4	_	0.000 EADTIM BUDGE BUDGE FY02	T YEAR T YEAR	O.000 TBD 22: TBC 22: TBC TC	)	0.000 TOTAL 1 1 1 2		
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# CLASSIFICATION: UNCLASSIFIED

EDULE					A. APF	PROPRI	ATION/E	BUDGET	ACTIV	'ITY			B. P-1	ITEM N	OMENC	LATUR	E				C. DA	TE			
					OPN E	3A-1: S	HIP SU	JPPOR	T EQU	IPMEN	т		GE950	- LHA II	NTERIO	R VOICI	E NETW	ork/			FEB	RUA	RY 1	997	
		FY 1996	5			FY 199	7			FY 199	8			FY 199	9			FY 200	00			FY 20	01		LATER
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			E.		RQMT	(QTY)				TOTAL	RQMT		INSTAI	LED	(	ON HAN	D	FY 96	& PRIOF	R UNDL	VR	UNFL	INDED		
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			2.	APPN	-																				1
			3.	PROC	UREME	NT LEA	DTIME							INITIA	L ORDE		c 8 Mos			REOR	DER				1
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P-1 SHOPPING LIST ITEM NO.- 13 PAGE NO. - 8

DD for 2447, JUN 86

CLASSIFICATION:

						REQUIREN SHEET-INS P-23A	STALL						DATE FEBR	UARY 1997	7
APPROP OPN BA-				CTIVITY QUIPMEN	T			P-1 ITEM GE950 - LH		NCLATUR ERIOR VO			T		
1ST (	QTR	2ND (	QTR	3RD (	QTR	4TH QT	R	1ST QTR		2ND C	TR	3RD (	QTR	4TH Q	TR
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	-		FY	1998	-		-		•		FY	1999	-		
						LHA 5 (FY 97)	1							LHA 4 (FY 98)	1
			FY	2000							FY	2001			
										LHA 1 (FY 00)	1	LHA 3 (FY 99)	1		
										LHA 2	1				
										(FY 00)	'				
							P-1 S	HOPPING I	IST			CLASSIF	CATIO	N:	

ITEM NO. 13 PAGE NO. 9

OPN BUDGET ITEM JUSTIFICATION SH	OPN BUDGET ITEM JUSTIFICATION SHEET								Y 1997
APPROPRIATION/BUDGET ACTIVITY	ROPRIATION/BUDGET ACTIVITY								
OPN BA 1: SHIPS SUPPORT EQUIPMEN		POLLUTION (81HF/093		OL EQUIP	MENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
OST \$103.2 \$126.4 \$156.8 \$218.						\$38.5	\$35.4	\$37.4	

SHIPBOARD POLLUTION CONTROL SYSTEMS/EQUIPMENT: This line item provides funds for the procurement of pollution control systems and equipment that are required by Navy ships in order for them to comply with international regulations, federal laws, DOD Directives and Navy environmental protection regulations. These regulations, laws and directives restrict the discharge of oily wastes, sewage, solid waste, plastic waste, medical waste and hazardous waste. Most of these applicable regulations require Navy ships to comply by fixed deadline dates. Failure to comply carries potential personal, civil, and criminal liability, and significantly imposes constraints on the operational capabilities of Navy ships. In some instances, the compliance schedule has required an acceleration of the normal schedules in the procurement/FMP process.

HF005 - C-100 OIL WATER SEPARATOR (OWS) - The C-100 OWS is a system designed to remove oil from oily bilge water so that the water can be discharged overboard in compliance with environmental regulations. The C-100 is a 100 gpm parallel plate OWS similar in technology to the 10 gpm model OPB 10NP. The C-100 OWS is designed for aircraft carriers and large amphibious ships. The IO for this is 32 with all units being procured in budget year and subsequent years. The total cost is \$40.8M.

HF016 - OIL CONTENT MONITORS (OCM) - These monitors will be installed aboard surface ships, including submarine tenders downstream of the oil water separator, to provide positive control of the overboard discharge from the OCM to ensure discharges do not exceed state, federal, and international environmental regulations. Installation of these OCMs will enable the fleet to comply with DOD Directive 6050.15 and OPNAVINST 5090.1. The IO for this is 152 with 129 being procured in prior year with the balance procured in subsequent years. 76 units have been installed. Total Cost is \$5.2M.

HF019 - SEWAGE PUMPS (40 GPM) - ShipAlts DD-963K-688K/669K and DDG-993-229K provide for capability to collect gray water (plumbing waste from showers, laundry, space deck drains, sinks, scullery, etc.) and discharge it to pier side sewage facilities. Numerous state and federal authorities, and some foreign ports have levied restrictions on the overboard discharge of gray water on US Navy ships. Sewage pumping systems are required for these alterations. Each unit of issue cited herein consists of two (2) pumps, level controls, valves and fittings. The DD-963/DG-993 classes use 40 gpm pumps. The IO for this is 32, 32 units were procured in prior year. 26 units have been installed. The total cost is \$4.0M.

HF019 - SEWAGE PUMPS (200 GPM) - ShipAlt LHA-1-692K provides for capability to collect gray water (plumbing waste from showers, laundry, space deck drains, sinks, scullery, etc.) and discharge it to pier side sewage facilities. Numerous state and federal, authorities, and some foreign ports have levied restrictions on the overboard discharge of gray water on US Navy ships. Sewage pumping systems are required for these alterations. Each unit of issue cited herein consists of two (2) pumps, level controls, valves and fittings. The LHA-1 classes use 200 gpm pumps. The IO for this is 10, 2 units were procured in prior years. The total cost is \$15.0M.

	OPN BUDGET ITEM JUSTIFICATION SHEET	DATE: FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE
	OPN BA 1: SHIPS SUPPORT EQUIPMENT	POLLUTION CONTROL EQUIPMENT (81HF/0935)

HF024 - CFC/HALON ELIMINATION PROGRAM - CFCs and Halons are two substances that have been implicated in the depletion of stratospheric ozone. The production of CFC-based refrigerants (CFC-11, CFC-12, CFC-114) is prohibited after 31 DEC 95 by the Clean Air Act of 1990. Presidential Executive Order of 21 APR 93 calls for federal agencies to "maximize the use of safe alternatives to ozone-depleting substances". OPNAVINST 5090.1B dated 1 NOV 94 further requires the "reduction of the use and emission of [ozone-depleting substances] to the lowest achievable level". The Navy is currently dependent on CFC-based refrigerants for the mission-critical cooling of (1) vital electronics and weapon systems, (2) food and medical stowage, and (3) inhabited spaces aboard surface ships and submarines. To counter the immediate threat of production cessation on uninterrupted Fleet operations, CNO(N45) directed the Defense Logistics Agency to establish a stockpile of CFC-based refrigerants. This stockpile is sized to support Fleet operations until the last CFC-based systems are retired or converted to ozone-friendly refrigerants. In addition, the size of the stockpile was based on an assumed conversion schedule of shipboard air-conditioning and refrigeration systems. The CFC/Halon Elimination Team is now converting shipboard air-conditioning and refrigeration systems to ozone-friendly refrigerants. The CFC-12 conversion program, which will convert nearly 1,100 systems, began in FY 94 and is expected to complete in FY 00. To date, over 330 systems have been converted and 70 ships are "CFC-12-free". The CFC-114 program, which will convert approximately 574 systems, is expected to commence in FY 99 and complete in FY 08. The Team is also attempting to reduce overall shipboard consumption of refrigerants. Due to the dependence of shipboard weapon and support systems on refrigeration, an interruption in the conversion programs subjects the Navy to the risk of prematurely depleting the stockpile and, subsequently, significantly impairing

HF030 - PLASTIC WASTE PROCESSOR (PWP) - This equipment will be installed on surface ships to provide the capability, which does not currently exist, to process food contaminated and other plastic waste into compact and sanitary solid blocks for onboard storage, subsequent offload and recycle ashore. Navy policy, national and international regulations prohibit ships from discharging plastic waste at sea (based on MARPOL Annex V, PL 100-220, and OPNAVINST 5090.11). Congress has mandated that the Navy complete installations of PWPs on 25% of the ships by 1 March 1997, 50% by 1 July 1997, 75% by 1 July 1998 and complete installations by 31 December 1998. PWP equipment reduces the volume of plastic waste currently stored onboard ships approximately 30 times and eliminates a sanitation and odor condition. The PWP consists of a Plastic Waste Shredder and 1 to 2 Compress Melt Units (CMU). CMU's heat and compress the shredded plastic. Four types of PWP's are being procured based on the processing capacity required for various ships. Type-A, consists of 1 Plastic Waste Shredder and 3 CMUs; Type-B, 1 Shredder, 2CMU's; Type-C, 2 CMU's and Type-D, a single CMU. Types of PWPs can be combined for larger ships which require greater processing capacity. PWP equipment has completed RDT&E. Milestone III, Approval for Production, was granted in January 1995. PWP equipment is being procured by competitive awards (2 contracts) following K Shipalt backfit installation of new ship construction where applicable. The procurement quantity is 245 units. 245 installations are included in the budget. Total revised cost is \$247.0M. Due to the addition of FFGs that were scheduled for decommissioning, additional PWP units are required to support the revised FFG requirement. These units are acquired through reallocation of assets and maximizing the last procurement option.

HF004 - BILGE PUMPS - These pumps are used to transfer oily waste from the bilge to oily waste holding tanks where it can then be processed by the oil/water separator. The bilge pumps also allow bilge water to be pumped overboard through a deck riser while in port to permit offloading of bilge water to shore facilities. The IO for this is 27. Total cost is \$1.1M.

HF830 - PRODUCTION ENGINEERING - The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, PMS, Level III production drawings. Provisional Technical Documentation (PTD), Program Support Data (PSD), and Allowance Part's Lists (APL's); Engineering in support of final design reviews. This work can be accomplished by NAVSSES and the service Engineering Agent, other Naval Activities or contractors as appropriate.

OPN BUDGET ITEM JUSTIFICATION SHEET	DATE: FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OPN BA 1: SHIPS SUPPORT EQUIPMENT	POLLUTION CONTROL EQUIPMENT (81HF/0935)

HF51N - INSTALLATION OF EQUIPMENT - Funding is for the installation of equipment including Fleet Modernization Program installations, installation of training equipment, and installation equipment in other shore facilities. See attached sheets.

### SHOREBASED POLLUTION EQUIPMENT - (N452)

The Shorebased funds provide for equipment required to clean up Navy oil spills on the open sea as required by the Federal Waste Pollution Control Act - Public Law 92-500. The law created a National Oil and Hazardous Substance Pollution Contingency Plan, and designates the Department of Defense as one of the primary agencies responsible for promotion of effective operation of the plan. OPNAVINST 5090.1A and NAVSEAINST 4740.8A assign the Supervisor of Salvage the responsibility to provide technical expertise, resources, and equipment for cleaning Navy -originated spills of oil and other hazardous material in coastal waters or the open sea. Major items of procurement are:

HF040 - SUPPORT SYSTEMS - These systems include those auxiliary systems required to keep the oil spill responders operating in the field. These systems include equipment required for command and control, repair, deployment, demobilization, and other ancillary requirements of a spill response. Required I/O is 68.

HF042 - BOOM TENDING BOATS (INFLATABLE) - Outboard powered inflatable boats 19' and 23' in length capable of operating in a wide variety of weather and sea conditions. These inflatable boats are better suited to open ocean operations than the rigid boats due to increased portability and operator safety. The boats are used for inspection and in-place maintenance of the moored boom systems and to provide for personnel and cargo transport throughout a spill response operations area. Required I/O is 22.

HF051 - OIL BOOM SYSTEMS - These systems consist of 2,000' of inflatable boom, with all associated equipment required to store, inflate, deploy, and repair the boom. The systems are packaged in an 8' x 8' x 20' shipping container. Required I/O is 46.

HF054 - BEACH TRANSFER SYSTEMS - These systems consist of all-terrain tractor with trailer and two all-terrain vehicles with support equipment packaged in an 8' x 8' x 20' shipping container. The system transports equipment and materials to otherwise inaccessible soft beach and mud areas of a spill response. Required I/O is 8.

HF055 - SALVAGE SKIMMER SYSTEMS - These systems are a collection of small, special-purpose skimmers, containment boom, transfer pumps, storage tanks, sorbents, and ancillary equipment intended as a stand-alone response package for small, salvage-related spills inside and adjacent to ships. Required I/O is 11.

HF056 - EQUIPMENT CLEAN-UP SYSTEMS - These systems provide for the extensive cleaning of equipment prior to demobilization at a response site. The system provides a full array of all tools and materials required for efficient cleaning and demobilization of response assets. Required I/O is 8.

HF057 - LOGISTICS SUPPORT SYSTEMS - Logistics support systems are used to assist in disposal of removed oil and debris. These systems include: vacuum systems, floating hose systems, oil bladder systems, and material transfer systems. Required I/O is 50.

OPN BUDGET ITEM JUSTIFICATION SHEET	DATE: FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OPN BA 1: SHIPS SUPPORT EQUIPMENT	POLLUTION CONTROL EQUIPMENT
	(81HF/0935)

HF059 - BOOM MOORING SYSTEMS (Deep Water Extension) - This system is used to extend the depth in which the existing boom mooring systems can be used from 200' to 600' allowing use of diversionary boom in deep water applications. Required I/O is 64.

HF060 - HOT TAP SYSTEMS: Designed to allow penetration into tanks below the waterline. The hot tap is a system that secures a device to the hull, cuts through shell plating and allows installation of a valve to permit pumping. This allows lightening or removal of oil from a vessel without tank access above the waterline. Required I/O is 7.

HF061 - VISCOUS OIL TRANSFER SYSTEMS: Oil that weathers, emulsifies, or mixes with other contaminants will become thick and viscous to the point that regular centrifugal pumping systems will not move the oil. The viscous oil pumping system is a different type of pump with peripherals to allow the pumping of this type of oil. Required I/O is 28.

HF062 - SUBMERSIBLE 6" HYDRAULIC PUMPING SYSTEMS: This system allows the lightening of oil from tanks aboard ships whose transfer systems are inoperative. The size of the pump allows for insertion the tanks from topside access hatches. Required I/o is 33.

HF063 - VESSEL OF OPPORTUNITY (VOSS) SKIMMING SYSTEMS: The VOSS is a skimming system which can be used aboard any vessel with enough deck space to support the operating equipment. It allows skimming capability in locations where traditional skimmers may not be practicable, such as offshore or in extremely inclement weather. It may be a belt, disk, wire or rope mop type skimmer. Required I/O is 14.

HF064 - MODULAR BARGE SYSTEMS: This system creates a temporary storage capability for recovered oil. Oil can be transferred from skimmers as well as oil bladders further transfer to shoreside facilities or large tank barge. Oil can also be transferred between oil bladders. The systems also allows for deck spaces upon which to set up other support systems or barge sections to incorporate future support systems. Required I/O is 4.

HF065 - BOARDING KITS: This is designed to be placed aboard a vessel with no power or support services for personnel. It contains all the equipment necessary to support a team of salvors and pollution response personnel while working aboard a "dead:" tanker. Required I/O is 10.

HF025 - METAL GLASS SHREDDER (MGS), LARGE PULPERS (LP) AND SMALL PULPERS (SP) - These equipment will be installed on surface ships to provide a capability which does not currently exist, to reliably process shipboard non-plastic solid waste. The pulpers are designed to pulp paper, cardboard and food waste into environmentally benigh slurry to be discharged. The MGS is designed to shred metal and glass waste into sinkable form and discharged. The Navy has developed the pulpers and MGS to eliminate the possibility of having Navy ships' waste fouling the marine environment and exposed beaches. The FY97 National Defense Authorization Act allows for the use of pulpers and shredders to achieve compliance with MARPOL special area discharge regulations and requires full surface ship compliance by 31 December 2000. The Secretary of Navy submitted to Congress the Navy's Special-Area Compliance Plan in November, 1996. In this plan, the Navy committed to budget, procure and install solid waste pulpers and shredders on all warships the size of frigates and larger by 31 December, 2000. The FP for this procurement will be released in February 1997 with contract award in October 1997. Milestone III Acquisition Decision Memorandum was signed in September 1996.

The MGS will be procured by competative awards followed by K ShipAlt backfit installation starting in August 1998. The pulpers and shredders will be forward-fitted on new ship construction where applicable. The Inventory Objective is for MGS is 175 units. for LP is 149 and SP is 35. The shredder is virtually identical to the shredder used for

plastics processors, except it contains an additional part however, no production units have been procured in prior years. Total program cost is \$290.9M.

HFDSA - THis budget reflects the transfer of design services into the appropriate equipment P-1 line item beginning in FY 98.

# CLASSIFICATION: UNCLASSIFIED OPN PROGRAM COST BREAKDOWN B. APROPRIATION/BUDGET ACTIVITY WEAPONS SYSTEMS COST ANALYSIS P-5 OPN BA 1: SHIPS SUPPORT EQUIPMENT

A. DATE:

FEBRUARY 1997

C. P-1 ITEM NOMENCLATURE

POLLUTION CONTROL EQUIPMENT 81HF (81HF/0935)

WEAPONS SYSTEMS COST ANALYSIS

1-5	OTA BA 1. SIII S SOFT ON EQUI MENT	IDENT			TOTAL COST IN 1	THOUSANDS OF D	OLLARS			
	ELEMENT OF COST	CODE	FY	1996		1997		1998	FY	1999
COST				TOTAL		TOTAL		TOTAL		TOTAL
CODE			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	SOLID WASTE									
HF030	PLASTIC WASTE PROCESSOR	Α								
	PWP-TYPE A		40	\$12,621	20	\$6,759				
	PWP-TYPE B		43	\$9,079	49	\$10,759				
	PWP-TYPE C		30	\$4,596	26	\$4,265				
	PWP-TYPE D		4	\$434						
HF830	PRODUCTION ENGINEERING	A		\$3,552		\$2,500		\$3,637		\$791
HF025	PULPERS & SHREDDERS	А								
	METAL GLASS SHREDDERS						126	\$9,150	49	\$3,668
	LARGE PULPERS						112	\$19,671	37	\$5,647
	SMALL PULPERS						22	\$2,413	13	\$1,233
	SUBTOTAL SOLID-WASTE		117	\$30,282	95	\$24,283	260	\$34,871	99	\$11,339
	NON-SOLID WASTE									
HF019	200 GPM SEWAGE PUMP	Α	2	\$150	4	\$376	2	\$200		
HF005	C100 OIL WATER SEPARATOR	A	21	\$621			5	\$168		
HF016	OIL CONTENT MONITOR	A	24	\$285	0	\$0				
HF024	CFC-12 (R-12) AC BACKFIT	A	65	\$1,708	0	\$0	84	\$3,100	19	\$700
HF024	CFC-12 (R-12) REEFER BACKFIT	A	106	\$3,362	0	\$0	250	\$8,700	168	\$6,500
HF024	CFC-114 (R-114) AC BACKFIT						8	\$3,161	49	\$12,754
HF125										
HF830	PRODUCTION ENGINEERING			\$299		\$66		\$698		\$1,913
HF004	BILGE PUMPS						12	\$252		
	SUBTOTAL NON-SOLID WASTE			\$6,425		\$442		\$16,279		\$21,867
	SUBTOTAL SEA 03L			\$36,707		\$24,725		\$51,150		\$33,206

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Exhibit P-5

	ASSIFICATION: UNCLASSIFIED									
		RAM COST BR	EAKDOWN		-		A. DATE:		FEBRUARY 1997	
	DN/BUDGET ACTIVITY FEMS COST ANALYSIS				C. P-1 ITEM NOME	ENCLATURE	DOLL LITION CON	TROL EQUIPMENT	04UE	
P-5	OPN BA 1: SHIPS SUPPORT EQUIPMENT						(81HF/0935)	I ROL EQUIPMENT	OINF	
	CINDA I. CIM C COI I CIN EQUI MEN	IDENT			TOTAL COST IN 1	THOUSANDS OF D				
	ELEMENT OF COST	CODE	FY	1996		1997		1998	FY	1999
COST				TOTAL		TOTAL		TOTAL		TOTAL
CODE			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	B. SHOREBASED - (N452)									
HF040	SUPPORT SYSTEMS	А	3	\$214	3	\$250	4	\$344	2	\$178
HF042	BOOM TEND BOATS (INFLATABLE)	A			1	\$90			2	\$190
HF051	OIL BOOM SYSTEMS	A	3	\$675	4	\$959	5	\$1,206	3	\$729
HF054	BEACH TRANSFER SYSTEMS	A					1	\$64	2	\$128
HF055	SALVAGE SKIMMER SYSTEMS	A			1	\$88			1	\$92
HF056	EQUIPMENT CLEAN-UP SYSTEMS	A			1	\$95	1	\$95		
HF057	LOGISTICS SUPPORT SYSTEMS	A	2	\$323	3	\$504	3	\$510	3	\$522
HF058	ARTIC OIL RECOVERY SYSTEMS	A			1	\$350				
HF059	BOOM MOORING SYSTEMS	A			13	\$127	16	\$165	16	\$168
HF060	HOT TAP SYSTEMS	A					1	\$210		
HF061	VISCOUS OIL TRANSFER SYSTEM	A					2	\$200		
HF062	SUBMERSIBLE 6" HYD PUMP SYS	A					3	\$210	1	\$72
HF063	VOSS SKIMMER SYSTEMS	A							1	\$603
	SUBTOTAL SEA 00C			\$1,212		\$2,463		\$3,004		\$2,682

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Exhibit P-5

WEAPONS SYSTEMS COST ANALYSIS

DGET ACTIVITY		EAKDOWN				A. DATE: FEBRUARY 1997				
				C. P-1 ITEM NOMI	ENCLATURE					
COST ANALYSIS							TROL EQUIPMENT	81HF		
BA 1: SHIPS SUPPORT EQUIPMENT		1				(81HF/0935)				
	IDENT			TOTAL COST IN 1	THOUSANDS OF DO	OLLARS				
ELEMENT OF COST	CODE	FY	1996	FY	1997	FY	1998	FY	1999	
		QUANTITY	TOTAL	QUANTITY	TOTAL COST	QUANTITY	TOTAL	OHANTITY	TOTAL	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	COST (8)	QUANTITY (9)	(10)	
(1)	(2)	(5)	(4)	(5)	(0)	(,)	(0)	(3)	(10)	
TOTAL SEA 00C			\$1,212		\$2,463		\$3,004		\$2,	
TOTAL SEA 03L			\$36,707		\$24,725		\$51,150		\$33,	
ND TOTAL EQUIPMENT			\$37,919		\$27,188		\$54,154		\$35,	
GN SERVICES ALLOCATION							\$11,006		\$29,	
ALLATION			\$65,247		\$100,304		\$91,615		\$153,	
ND TOTAL INSTALLATION			\$65,247		\$100,304		\$102,621		\$182,	
ND TOTAL EQUIPMENT & INSTALL			\$103,166		\$127,492		\$156,775		\$218,	
•	ID TOTAL EQUIPMENT & INSTALL	ID TOTAL EQUIPMENT & INSTALL	ID TOTAL EQUIPMENT & INSTALL	ID TOTAL EQUIPMENT & INSTALL \$103,166	ID TOTAL EQUIPMENT & INSTALL \$103,166	ID TOTAL EQUIPMENT & INSTALL \$103,166 \$127,492	ID TOTAL EQUIPMENT & INSTALL \$103,166 \$127,492	ID TOTAL EQUIPMENT & INSTALL \$103,166 \$127,492 \$156,775	ID TOTAL EQUIPMENT & INSTALL \$103,166 \$127,492 \$156,775	

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NO. PAGE NO. 14 7 WEAPONS SYSTEMS COST ANALYSIS

Exhibit P-5

. APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLA	TURE		ı			
	OPN BA 1: SHIPS SUPPORT EQUIPMEN	г		I - I II E III NOILENGEA		POLLUTION CONTRO	L EQUIPMENT (81HF/0	935)		
	CONTRACTOR	CONTRACT			DATE OF			SPECS	SPEC	IF YES,
LINE ITEM	AND	METHOD &	CONTRACTED	AWARD	FIRST			AVAILABLE	REV	WHEN
FISCAL YEAR	LOCATION	TYPE	BY	DATE	DELIVERY	QUANTITY	UNIT COST	NOW	REQ'D	AVAILABLE
F024								0		
FC 12 AC/BF										
Y 1996	ITS INC NOR VA	RCP	NSWC PHILA,PA	FEB 96	NOV 97	65	\$26,276 (1)	YES	NO	
/ 1998	UNKNOWN	RCP	NSWC PHILA,PA	FEB 98	NOV 99	84	\$36,904	YES	NO	
Y 1999	UNKNOWN	RCP	NSWC PHILA,PA	FEB 99	NOV 00	19	\$36,842	YES	NO	
F024										
FC 12 REEFER	170 WG WG WA	202	NOW & BUIL & F :					V=0		
Y 1996	ITS INC NOR VA	RCP	NSWC PHILA,PA	FEB 96	FEB 97	106	31,716(1)	YES	NO	
Y 1998	UNKNOWN	RCP	NSWC PHILA,PA	FEB 98	FEB 99	250	34,800(1)	YES	NO	
Y 1999	UNKNOWN	RCP	NSWC PHILA,PA	FEB 99	FEB 00	168	38,690(1)	YES	NO	
F024										
FC R114 AC BACKFIT										
ſ 1998	UNKNOWN	FFP	NAVSEA	APR 98	JAN 99	8	\$395,125	YES	NO	
Y 1999	UNKNOWN	FFP	NAVSEA	DEC 98	DEC 99	49	\$260,286	YES	NO	
F005										
100 OWS										
Y 1996	PARMATIC DANVILLE, N.J.	OPTION	NAVSEA	Apr-96	JUL 97	21	\$29,571	YES	NO	
Y 1998	PARMATIC DANVILLE, N.J.	OPTION	NAVSEA	Apr-98	Jul-99	5	\$33,600	123	140	
1 1330	PARMATIC DANVILLE, N.J.	OFTION	NAVSEA	Apr-30	341-99	,	\$33,000			
F016										
CM										
Y 1996	*UNKNOWN	C/FP	NAVSEA	OCT-96	OCT 98	24	\$11,875	YES	NO	
F019										
EWAGE PUMP										
00 GPM)										
7 1996	SCOT PUMP	RCP	SPCC, MECH PA	APR 96	OCT 97	2	\$75,000	YES	NO	
/ 1997	SCOT PUMP	RCP	SPCC, MECH PA	FEB 97	AUG 98	4	\$75,000 \$94,000	YES	NO	
Y 1998	SCOT PUMP	RCP	SPCC, MECH PA	FEB 97	AUG 98	2	\$100,000	YES	NO	
									-	
F004										
LGE PUMP										
Y 1998	MEGATOR PITTSBRG, PA	RCP	SPCC, MECH PA	Dec-98	Dec-99	12	\$21,000	YES		

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EXHIBIT P-5A

	OPN BUDGET PRO	JONE MENT MOTO		_			A. DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLA						
	OPN BA 1: SHIPS SUPPORT EQUIPMI	ENT				POLLUTION CONTRO	OL EQUIPMENT (81HF/	1935)		
	CONTRACTOR	CONTRACT			DATE OF			SPECS	SPEC	IF YES,
LINE ITEM	AND	METHOD &	CONTRACTED	AWARD	FIRST			AVAILABLE	REV	WHEN
FISCAL YEAR	LOCATION	TYPE	BY	DATE	DELIVERY	QUANTITY	UNIT COST	NOW	REQ'D	AVAILABI
F030										
ASTIC WASTE										
ROCESSOR										
NP TYPE A										
1996	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 95	JUL 96	21	\$331,291	YES	NO	9/94
1997	UNIV TECH. TN	FP TYPE	NAVSEA	NOV 96	JUL 97	10	\$361,122	YES	NO	9/94
1991	ONIV TECH, IN	17 1172	NAVSLA	NOV 90	302.97	10	\$301,122	1123	NO	3/34
VP TYPE B										
1996	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 95	JUL 96	28	\$217,621	YES	NO	9/94
1997	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 96	JUL 97	23	\$233,599	YES	NO	9/94
NP TYPE C										
1996	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 95	JUL 96	18	\$151,384	YES	NO	9/94
1997	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 96	JUL 97	16	\$167,383	YES	NO	9/94
WP TYPE D										
1996	UNIV TECH, TN	FP TYPE	NAVSEA	NOV 95	JUL 96	2	\$109,500	YES	NO	9/94
	·									
NP TYPE A										
1996	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 95	JUL 96	19	\$298,091	YES	NO	9/94
1997	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 96	JUL 97	10	\$314,756	YES	NO	9/94
NP TYPE B										
1996	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 95	JUL 96	15	\$199,039	YES	NO	9/94
1997	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 96	JUL 97	26	\$207,159	YES	NO	9/94
	WESTING ELLS, GA		10.1102.11		0020.		<b>\$201,100</b>	.20		0,04
NP TYPE C										
1996	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 95	JUL 96	12	\$155,924	YES	NO	9/94
1997	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 96	JUL 97	10	\$158,719	YES	NO	9/94
NP TYPE D										
( 1996	WESTHSE ELEC, CA	FP TYPE	NAVSEA	NOV 95	JUL 96	2	\$107,500	YES	NO	9/94
1330	WESTINGE ELEC, CA	17 1172	NAVSLA	NOV 95	302 90		\$107,300	11.5	NO	3/34
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**EXHIBIT P-5A** 

	OPN BUDGET PROCU	REMENT HISTOI	RY AND PLANNIN				A. DATE		FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY	OPN BA 1: SHIPS SUPPORT EQUIPMEN	г		P-1 ITEM NOMENCLA		POLLUTION CONTR	OL EQUIPMENT (81HF/0	1935)		
	CONTRACTOR	CONTRACT	1		DATE OF	1	1 1	SPECS	SPEC	IF YES,
LINE ITEM	AND	METHOD &	CONTRACTED	AWARD	FIRST			AVAILABLE	REV	WHEN
FISCAL YEAR	LOCATION	TYPE	BY	DATE	DELIVERY	QUANTITY	UNIT COST	NOW	REQ'D	AVAILABLE
HFO25										
ARGE SOLID WASTE PULPER										
Y 1998	UNKNOWN	C/FP	NAVSEA	OCT 97	JUL 98	112	\$175,637	YES	NO	
Y 1999	UNKNOWN	C/FP	NAVSEA	Jul-99	Jan-00	37	\$152,628	YES	NO	
METAL GLASS SHREDDER										
Y 1998	UNKNOWN	C/FP	NAVSEA	OCT 97	JUL 98	126	\$72,623	YES	NO	
Y 1999	UNKNOWN	C/FP	NAVSEA	Jul-99	Jan-00	49	\$74,847	YES	NO	
MALL PULPER										
FY 1998	UNKNOWN	C/FP	NAVSEA	OCT 97	JUL 98	22	\$109,666	YES	NO	
FY 1999	UNKNOWN	C/FP	NAVSEA	Jul-99	Jan-00	13	\$94,833	YES	NO	
		1				1				
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	•	•	•	•	•	•				•
				ITEM NO	P-1 SHOPPING LIST	BACE NO.				

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**EXHIBIT P-5A** 

# **UNCLASSIFIED**

			BUDGET PRO	OCUREMENT H	ISTORY ANI	O PLANNING	G Exhibit (P	-5A)		DATE: Febru	ary 1997
	ION/BUDGET ACTIVITY 1: Ships Support Equ	ipment			P-1 ITEM NOME Pollution C	ENCLATURE Control Equip	ment		SUBHEAD	81HF	
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLI
HF040 S	upport Systems										
	FY 1996	GPC, Norfolk, VA	C/CPAF	NAVSEA	04/96	10/96	3	\$71,333	YES	NO	
	FY 1997	Unknown	C/CPAF	NAVSEA	10/97	08/97	3	\$83,333	YES	NO	
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	07/98	4	\$86,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	09/99	2	\$89,000	YES	NO	
HF042 B	oom Tend Boats (Infl	at)									
	FY 1997	Unknown	C/CPAF	NAVSEA	02/97	09/97	1	\$90,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	08/99	2	\$95,000	YES	NO	
HF051 C	il Boom Systems										
	FY 1996	GPC, Norfolk, VA	C/CPAF	NAVSEA	04/96	12/96	3	\$225,000	YES	NO	
	FY 1997	Unknown	C/CPAF	NAVSEA	01/97	08/97	4	\$239,750	YES	NO	
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	09/98	5	\$241,200	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	11/98	09/99	3	\$243,000	YES	NO	

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**Exhibit P-5A Procurement History And Planning** 

# **UNCLASSIFIED**

			BUDGET PRO	OCUREMENT H	ISTORY ANI	PLANNING	3 Exhibit (P	-5A)		DATE: Febru	ary 1997
	TION/BUDGET ACTIVITY A 1: Ships Support Equi	pment			P-1 ITEM NOME Pollution C	ENCLATURE Control Equip	ment		SUBHEAD	81HF	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
HF054 Be	each Tranfer Systems										
	FY 1998	Unknown	C/CPAF	NAVSEA	01/98	07/98	1	\$64,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	07/99	2	\$64,000	YES	NO	
HF055 Sa	alvage Skimmer Syster	ms 									
	FY 1997	Unknown	C/CPAF	NAVSEA	01/97	08/97	1	\$88,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	09/99	1	\$92,000	YES	NO	
 HF056 Eq 	quipment Clean-up Sys	tems									
	FY 1997	Unknown	C/CPAF	NAVSEA	01/97	08/97	1	\$95,000	YES	NO	
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	09/98	1	\$95,000	YES	NO	

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**Exhibit P-5A Procurement History and Planning** 

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# **UNCLASSIFIED**

			BUDGET PRO	OCUREMENT HI	STORY AND	PLANNING	3 Exhibit (P	-5A)		DATE: Februa	ary 1997
	ion/Budget activity .1: Ships Support Equ	ipment			P-1 ITEM NOME Pollution C	ENCLATURE Control Equip	ment		SUBHEAD	81HF	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
HF057 Log	gistics Support Syste	ms									
	FY 1996	GPC, Norfolk, VA	C/CPAF	NAVSEA	04/96	11/96	2	\$161,500	YES	NO	
	FY 1997	Unknown	C/CPAF	NAVSEA	01/97	06/97	3	\$168,000	YES	NO	
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	09/98	3	\$170,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	08/99	3	\$174,000	YES	NO	
 HF058 Arc	ctic Oil Recovery Syst	lems									
	FY 1997	Unknown	C/CPAF	NAVSEA	01/97	07/97	1	\$350,000	YES	NO	
HF059 Boo	om Mooring Systems										
	FY 1997	Unknown	C/CPAF	NAVSEA	02/97	08/97	13	\$9,769	YES	NO	
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	05/98	16	\$10,312	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	03/99	16	\$10,500	YES	NO	
REMARKS	5										
				IODDING LIST							

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**Exhibit P-5A Procurement History and Planning** 

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# **UNCLASSIFIED**

			BUDGET PRO	OCUREMENT H	ISTORY ANI	PLANNING	3 Exhibit (P	-5A)		DATE: Febr	uary 1997
	TION/BUDGET ACTIVITY A 1: Ships Support Equip	ment			P-1 ITEM NOME Pollution C	enclature Control Equipi	ment		SUBHEAD	81HF	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
HF060 H	ot Tap Systems										
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	09/98	1	\$210,000	YES	NO	
ا 4 HF061 ا	iscous Oil Tranfer Syste	ms I									
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	08/98	2	\$100,000	YES	NO	
 HF062 S	ubmersible 6" Hyd Pump	Sys									
	FY 1998	Unknown	C/CPAF	NAVSEA	10/97	08/98	3	\$70,000	YES	NO	
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	08/99	1	\$72,000	YES	NO	
  HF063 V	OSS skimmer Systems										
	FY 1999	Unknown	C/CPAF	NAVSEA	10/98	07/99	1	\$603,000	YES	NO	
REMARK	<b>/</b> 6										

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Exhibit P-5A Procurement History and Planning

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CLASSIFICATION: UNCLASSIFIED FY 1998/1999 BUDGET PRODUCTION SCHEDULE

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	APPROPRIATION/BU OPN BA:1 SHIPS SUP					P-1 ITE	M NOM	ENCLA	TURE	POLL	UTION	CONTROL	EQUIP	MENT														SUBF	EAD:	8	B1HF			DATE: FEBRUA	RY 1997	•	
COST	TEM/MANUFACTURER/	S E	PROC	ACCEPT PRIOR	BAL DUE				FISC	CAL YEAR			1996							FIS	SCAL YE	AR	1997								FISC	ALY 1	1998				
	PROCUREMENT YEAR	R	QTY	TO	AS OF					CALENDER	YEAR						-			T	CAL	ENDAR Y	/EAR					-1			C	ALENI	DAR Y	EAR		199	8
		٧		1 OCT	1 OCT	oct	nov	dec	jan	feb mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	jul aug	sep	oct	nov	dec	jan 1	feb	mar	apr m	ay june	jul aug	g sept
1F030						-	-																									-+					+
A	UNIV TECH INC		31	0	31						2	2	0	1	2	2	2	2	2	2	2	2	2	2	0	2 1	1	1	1	0	0	0	0	0	)		+
	WESTINGHOUSE		29	0	29						2	3	2	1	2	2	2	2	2	2	2	2	2			2 1		0	0			0	0	0	)		+
В	UNIV TECH INC		51	0	51						1	0	0	3	3	3	3	3	3	2	2	2	3	1		2 2		3	2				4		0		
	WESTINGHOUSE		45	0	45						1	2	3	3	3	3	2	1	2	1	0	0	0	0	0	2 2	3	3	2	2	2	1	2	2	1 2	1	
С	UNIV TECH INC		34	0	34	1	1	$\vdash$			2	4	0	0	3	2	2	2	2	3	2	1	-	0	_	1 2		1	-	2	-	_		0	.		
·	WESTINGHOUSE		22	0	22	1					2	5	3	0	3	2	0	2	2	3		0	0	0		0 0		0					0	0			
	WESTINGHOUSE			•							-	,	,		,	-		1-	-	-			-			0 0			-	Ů	•	-	•	-	_		+
	UNIV TECH INC		2	0	2											1	1	1												_		$\neg$					
	WESTINGHOUSE		2	0	2											1	1																				
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	CTURER'S		1-8-5	MAXIMUM		1							ADMIN						TOT41			F	REMARK	S													
IAME A	ND LOCATION	RATE		<b> </b>	D+	4					<u> </u>	PRIOR	•	AFTER		MANU-			TOTAL																		
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CLASSIFICATION: UNCLASSIFIED																		FEBRUARY 19	997		
P3A			INDIVIDUAL						POLLUTION	CONTROL EQU	JIPMENT										
MODIFICATION TITLE:			ITION CONTR																		
MODELS OF SYSTEM AFFECTED:			IC WASTE PR																		
DESCRIPTION/JUSTIFICATION:			ESS FOOD, CO	ONTAMI	NATED WAS	TE AND	OTHER PL	ASTIC	WASTE INTO	COMPACT/SANI	TARY BLOCK	KS FOR ST	ORAGE					то	то		
DEVELOPMENT STATUS/MAJOR DEVELO	PMENT MILESTONE	S:	EV 00															COMP	COMP	TOTAL	TOTAL
		QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
PROCUREMENT																				245	
QUANTITY		150		95																	
INSTALLATION KITS																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT			40.8		21.8															0	62.6
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALLATION OF HARDWARE																					
FY96 & PRIOR EQUIPMENT		51	51.3	99	69.9															150	121.2
FY97 EQUIPMENT		31	31.3	15	14.7	77	43.1	3	3.7											95	61.5
FY98 EQUIPMENT				13	14.7	- ' '	43.1	3	3.7											33	01.5
FY99 EQUIPMENT																					
FY00 EQUIPMENT																					
FY01 EQUIPMENT																					
FY02 EQUIPMENT																					
FY03 EQUIPMENT																					
TO COMPLETE																					
TOTAL INSTALLATION COST		51	51.3	114	84.6	77	43.1	3	3.7	0	0		0		0		0			245	182.7
TOTAL PROCUREMENT COST			40.8		21.8		0		0		0.0		0.0		0.0		0				62.6
TOTAL COST			92.1		106.4		43.1		3.7		0.0		0.0		0.0		0.0				245.3
TOTAL COST			92.1		100.4		43.1		3.1		0.0		0.0		0.0		0.0				245.5
		TRACT					STRATIVE				9 MONTHS		PRODU	CTION LE			9 MONTHS				
CONTRACT DATE:	PRIO	R YEAR:	Jul-95			CURRE	NT YEAR:		NOV95	<b>BUDGET YEAR</b>	t:	Nov-96		<b>BUDGET</b>	YEAR 2	:					
PRODUCTION DELIVER DATE:	PRIO	R YEAR:	Apr-96			CURRE	NT YEAR:		Jul-96	BUDGET YEAR	l:	Jul-97		BUDGET	YEAR 2	:					
INSTALLATION SCHEDULE:																					
INPUT>	FY9	5	FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY 03	TC			
	1, 2, 3	3, 4	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	ī	1, 2, 3, 4	1, 2, 3, 4	TOTAL		
		_		,						_				_		_					
FY 96 & PRIOR		6	2 7 15 28		25 31 32 4														150		
FY 97					0 0 0 15		26 30 19 2		3										95		
FY 98																					
OUTPUT	. EVO	E	FY96		FY97		EVOS		FY99		EVOO		FY001		FY02		FY 03	тс	245		
001701						-	FY98			-	FY00			-					TOTAL		
	1, 2, 3	o, 4	1, 2, 3, 4		1, 2, 3, 4	=	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	<u> </u>	1, 2, 3, 4	1, 2, 3, 4	TOTAL		
FY 96 & PRIOR			6 6 15 3		28 25 31 32		4												150		
FY 96 & PRIOR FY 97			00103		20 20 31 32		4 5 26 30 19		2 3										95		
FY 98							J 20 JU 19		23										33		
F1 90																					
I.O. IS 245 UNITS.																			245		

ITEM 14 PAGE 16 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED FEBRUARY1997 INDIVIDUAL MODIFICATION РЗА MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT MODELS OF SYSTEM AFFECTED: **H2S SENSORS** H2S GAS DETECTION SYSTEMS MEET SAFETY REUIREMENTS DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: то то COMP COMP TOTAL TOTAL FY96 & QTY PRIOR QTY FY 97 QTY FY 98 QTY FY 99 QTY FY 00 QTY FY 01 QTY FY 02 QTY FY 03 QTY COST QTY COST FINANCIAL PLAN (IN MILLIONS) RDT&E 0 0.0 **PROCUREMENT** n 0.0 QUANTITY 118 0.0 INSTALLATION KITS 0 0.0 INSTALLATION KITS NONRECURRING 0 0.0 EQUIPMENT 1.6 0.0 1.6 EQUIPMENT NONRECURRING 0 0.0 **ENGINEERING CHANGE ORDERS** 0.0 DATA 0 0.0 TRAINING EQUIPMENT n 0.0 SUPPORT EQUIPMENT 0 0.0 OTHER 0.0 INTERIM CONTRACTOR SUPPORT 0.0 INSTALLATION OF HARDWARE FY 96 & PRIOR 118 3.7 118 3.7 **FY97 EQUIPMENT** 0 0.0 **FY98 EQUIPMENT** 0.0 n **FY 99 EQUIPMENT** 0.0 0 **FY00 EQUIPMENT** 0.0 **FY01 EQUIPMENT** 0 0.0 FYO2 EQUIPMENT 0 0.0 **FYO3 EQUIPMENT** 0.0 0 TOTAL INSTALLATION COST 118 3.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 118 3.7 TOTAL PROCUREMENT COST 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 TOTAL COST 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.3 0.0 METHOD OF IMPLEMENTATION: SHIPYARD ADMINISTRATIVE LEADTIME: 9 MOS PRODUCTION LEADTIME: **BUDGET YEAR 2:** CONTRACT DATE: PRIOR YEAR: **CURRENT YEAR:** BUDGET YEAR: Dec-93 PRODUCTION DELIVER DATE: **BUDGET YEAR 2:** PRIOR YEAR: Sep-94 CURRENT YEAR: BUDGET YEAR: INSTALLATION SCHEDULE: INPUT =====> FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC TOTAL 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 96 & PRIOR 44 39 33 2 118 OUTPUT ====> FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 TC 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 1, 2, 3, 4 TOTAL 44 39 33 2 118 96 & PRIOR I.O. IS 397.

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P-3A

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A				FICATION												DATE:	Feb 97			
MODIFICATION TITLE:				FROL EQU																
MODELS OF SYSTEM AFFECTED:				SEPARAT																
DESCRIPTION/JUSTIFICATION:		REMOVE	S OIL FR	OM BILGE	WATER	SO WATE	R CAN BE	DISCHA	RGED O	/ERBOAR	D WITHIN	IENVIRO	NMENTAI	REGULA	TIONS					
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILES	STONES:	=1															TO	TO		
	QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP QTY	COMP	TOTAL QTY	TOTAL COST
FINANCIAL PLAN (IN MILLIONS)	QIT	& PRIOR	QIT	F1 97	QIT	F1 90	QIT	F1 99	QII	F1 00	QIT	FTUI	QIT	F1 U2	QIT	F1 U3	QII	0031	QIT	COST
RDT&E	13																		13	0.0
PROCUREMENT	13																		13	0.0
QUANTITY																			0	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING		0.2																	0	0.2
EQUIPMENT	0	0.2	0		0		0												0	0.2
EQUIPMENT NONRECURRING	U		U		U		U												0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR	7	4.8	4	2.90	AP	0.10	1	2.4	1	1.5									13	11.7
FY97 EQUIPMENT																			0	0.00
FY98 EQUIPMENT																			0	0.00
FY99 EQUIPMENT																			0	0.00
FY00 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
FY02 EQUIPMENT																			0	0.00
FY03 EQUIPMENT																			0	0.00
TO COMPLETE																			0	0.00
TOTAL INSTALLATION COST		4.8		2.9		0.1		2.4		1.5		0.0		0.0		0.0		0.0	13.0	11.7
TOTAL PROCUREMENT COST		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.2
TOTAL COST		5.0		2.9		0.1		2.4		1.5		0.0		0.0		0.0		0.0		11.9
METHOD OF IMPLEMENTATION: AIT/SHIPYARD					ADMINIS	TRATIVE I	EADTIM	E:				PRODUC	TION LE	ADTIME:						
CONTRACT DATE:	PRIOR YEAR:				CURREN	IT YEAR:			BUDGET	YEAR:				BUDGET	YEAR 2:					
PRODUCTION DELIVER DATE:	PRIOR YEAR:				CURREN	IT YEAR:			BUDGET	YEAR:				BUDGET	YEAR 2:					
INSTALLATION SCHEDULE:																				
INPUT =====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	•	1, 2, 3, 4	-	TOTAL		
	2 1 2 2	1 1 1 1		1, 2, 0, 4		1, 2, 0, 7		1, 2, 0, 4		1, 2, 0, 4		1, 2, 0, 4		1, 2, 0, 7	-	1, 2, 0, 4	-	13		
FY 97	2122																	10		
FY 98																				
FY 99																				
1133																		13		
OUTPUT ====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC	_			
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	TOTAL		
FY 96 & PRIOR		2 1 2 2		1 1 1 1				1		1								13		
FY 97																				
FY 98																				
FY 99																				
																		13		
I.O. IS 326.																				P-3A

P3A MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED:		POLLUTION	ON CON	FICATION TROL EQU EPARATO			_						DATE:		Feb-97	,				
DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILEST	ONES:		S OIL FR	OM BILGE	WATER	SO WATE	R CAN BI	E DISCHAF	RGED O\	/ERBOARI	D WITHIN	NENVIRON	MENTAI	REGULAT	TIONS		то	то		
	QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP QTY	COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E	6																		6	0.0
<u>PROCUREMENT</u>																				
QUANTITY																			0	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT		0.1	0		0		0												0	0.1
EQUIPMENT NONRECURRING																			0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA TRAINING FOLUDAENT																			0	0.0
TRAINING EQUIPMENT SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				0.0
FY96 EQUIPMENT & PRIOR			4	1.6	0	0.00	2	1.4											6	3.0
FY97 EQUIPMENT			•	1.0	Ū	0.00	-												0	0.00
FY98 EQUIPMENT																			0	0.00
FY99 EQUIPMENT																			0	0.00
FY00 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
FY02 EQUIPMENT																			0	0.00
FY03 EQUIPMENT																			0	0.00
TO COMPLETE																			0	0.00
TOTAL INSTALLATION COST		0.0		1.6		0.0		1.4		0.0		0.0		0.0		0.0		0.0	6.0	3.0
TOTAL PROCUREMENT COST		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.1
TOTAL COST		0.1		1.6		0.0		1.4		0.0		0.0		0.0		0.0		0.0		3.1
METHOD OF IMPLEMENTATION: AIT/SHIPYARD					ADMINIS	TRATIVE	LEADTIM	E:				PRODUC	TION LE	ADTIME:						
CONTRACT DATE: PF	RIOR YEAR:				CURREN	IT YEAR:		ı	BUDGET	YEAR:				BUDGET	YEAR 2:					
PRODUCTION DELIVER DATE: PF	RIOR YEAR:				CURREN	IT YEAR:			BUDGET	YEAR:				BUDGET	YEAR 2:					
INSTALLATION SCHEDULE:																				
	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
	, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 96 & PRIOR		4				2												6		
FY 97																				
FY 98																				
FY 99																		6		
OUTPUT ====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC		ь		
	2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 96 & PRIOR	-, -, -	1, 2, 0, 7		4		., =, 0, +		2		., =, 0, 7		., 2, 0, 4		., 2, 0, 7		., 2, 0, 7		6		
FY 97																				
FY 98																				
FY 99																				
I.O. IS 6 UNITS.																				
																				P-3A

P3A		INDIVIDU													DATE:		Feb-97			
MODIFICATION TITLE:		POLLUTIO																		
MODELS OF SYSTEM AFFECTED:		C100 OIL																		
DESCRIPTION/JUSTIFICATION:		REMOVE	S OIL FR	OM OILY E	BILGE WA	ATER TO M	IEET DIS	CHARGE	REGULA	TIONS										
DEVELOPMENT STATUS/MAJOR DEVELOPMENT	MILESTONES:																TO	TO		
	QTY	FY 96	OTV	EV 07	OTV	EV 00	OTV	EV 00	OTV	F\/ 00	OTV	EV 04	OTV	EV 00	OTV	EV 00	COMP	COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QIY	& PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
·																				
RDT&E																			0	0.0
PROCUREMENT			_		_				_											
QUANTITY	27		0		5		0		0										32	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT	27	0.8	0	0.0	5	0.17	0	0.0	0	0.00									32	1.0
EQUIPMENT NONRECURRING																			0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR	2	0.90	4	4.9	12	14.5	8	11.5	1	1.30									27	33.1
FY97 EQUIPMENT																			0	0.00
FY98 EQUIPMENT									5	7.2									5	7.2
FY99 EQUIPMENT																			0	0.00
FY00 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
FY02 EQUIPMENT																			0	0.00
FY03 EQUIPMENT																			0	0.00
TO COMPLETE																			0	0.00
TOTAL INSTALLATION COST		0.9		4.9		14.5		11.5		8.5		0.0		0.0		0.0		0.0	32.0	40.3
TOTAL PROCUREMENT COST		8.0		0.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL COST		1.7		4.9		14.7		11.5		8.5		0.0		0.0		0.0		0.0		40.3
METHOD OF IMPLEMENTATION: AIT/SHIPYARD					ADMINIS	TRATIVE I	EADTIM	IE:	6			PRODUC	TION LE	ADTIME:		12				
CONTRACT DATE: Jan-96	PRIOR YEAR:	4/96			CURREN	IT YEAR:			BUDGET	YEAR:				BUDGET	/EAR 2:		4/98			
PRODUCTION DELIVER DATE:	PRIOR YEAR:	7/97			CURREN	IT YEAR:			BUDGET	YEAR:				BUDGET	/EAR 2:		4/99			
INSTALLATION SCHEDULE:																				
INPUT =====>	FY95	FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY 03	TC			
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1,2,3,4	1,2,3,4	TOTAL		
FY 96 & PRIOR	1, 4, 3, 4	1, 2, 3, 4		2 2		8 2 2		2 2 2 2		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1,2,3,4	1,2,3,4	27		
FY 96 & PRIOR FY 97		2		2 2		0 2 2		2 2 2 2		1								0		
FY 97 FY 98										F								5		
FY 98 FY 99										5								0		
F1 33																		32		
OUTPUT ====>	FY95	FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY 03	TC	52		
333. =====	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1,2,3,4	1,2,3,4	TOTAL		
FY 96 & PRIOR	., 2, 0, .	., ., 0, 4		2		2 2		8 2 2		2 2 2 2		1		., =, 0, +		.,_,,,,	1,2,0,7	27		
FY 97				_								•						0		
FY 98												5						5		
FY 99																		0		
55																		32		
I.O. IS 32.																				
																				P-3A

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AL MODI	FICATION									DATE:		Feb-97	,				
MODIFICATION TITLE:		POLLUTIO	ON CONT	ROL EQUI	PMENT															
MODELS OF SYSTEM AFFECTED:		OIL CONT																		
DESCRIPTION/JUSTIFICATION:						TER SEPAI	RATOR F	FELLIENT												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTO	NES.			J	0.2												то	то		
DEVELOT MENT STATOOMASON DEVELOT MENT MILESTO	JINEO.	FY 96															COMP	COMP	TOTAL	TOTAL
	QTY		QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.0
PROCUREMENT																			ŭ	0.0
QUANTITY	87																		87	0.0
INSTALLATION KITS	0.																		0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT	87	0.8																	87	0.8
EQUIPMENT NONRECURRING	01	0.0																	0	0.0
																			0	
ENGINEERING CHANGE ORDERS																				0.0
DATA																			0	0.0
TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT OTHER																			0	0.0
																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR	14	0.82	33	2.0	26	1.8	9	0.43	9	0.2									91	5.2
FY97 EQUIPMENT																			0	0.00
FY98 EQUIPMENT																			0	0.00
FY99 EQUIPMENT																			0	0.00
FY00 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
FY02 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
TO COMPLETE																			0	0.00
TOTAL INSTALLATION COST		0.8		2.0		1.8		0.4		0.2		0.0		0.0		0.0		0.0	91.0	5.2
TOTAL PROCUREMENT COST		0.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL COST		1.6		2.0		1.8		0.4		0.2		0.0		0.0		0.0		0.0		5.2
METHOD OF IMPLEMENTATION: AIT/SHIPYARD					ADMINIS	TRATIVE L	EADTIME	:				PRODUC	CTION LE	ADTIME:	16 MOS					
	PRIOR YEAR:	1/95			CURREN				BUDGET '	YEAR:				BUDGET						
	PRIOR YEAR:	12/96			CURREN				BUDGET					BUDGET						
INSTALLATION SCHEDULE:																				
INPUT =====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	,	1, 2, 3, 4		1, 2, 3, 4	•	TOTAL		
	5 3 2 4	7 8 11 7		13 4 9		3 4 2		5	_									87	_	
FY 97																				
FY 98																				
FY 99																				
																		87		
OUTPUT ====>	FY96	FY97		FY98		FY99		FY00	_	FY01		FY02		FY03		TC				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	TOTAL	_	
FY 96 & PRIOR		5 3 2 4		7 8 11 7		13 4 9		3 4 2		5								87		
FY 97																				
FY 98																				
FY 99																				
																		87		
I.O. IS 87.																				
																				P-3A

		INDIVIDUAL M	ODIFICATIO					POLLUTION (	ONTROL	FOLUBMENT							FEBRUA	RY 1997		
3A IODIFICATION TITLE:		ON CONTROL						POLLUTION	ONTROL	EQUIPMENT										
IODELS OF SYSTEM AFFECTED:			EQUIPMENT																	
		C BACKFIT																		
DESCRIPTION/JUSTIFICATION:	MODIFIES	S CFC-12 AC U	NITS ON MO	ST SURFACE	SHIP CLASSE	S TO OZONI	E-FRIENDL	Y HFC 134A.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																	то	то		
	QTY	FY96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP QTY	COMP	TOTAL QTY	COS
FINANCIAL PLAN (IN MILLIONS)		1 11.011			٠		<u> </u>		<u> </u>				<u></u>		<u></u>		<u> </u>			-
RDT&E																				
PROCUREMENT																			207	
QUANTITY	104		0		84		19													
INSTALLATION KITS			•		•															
INSTALLATION KITS NONRECURRING																				
EQUIPMENT		3.4		0		3.1		0.7											0	7.
EQUIPMENT NONRECURRING		5.4				J. 1		0.,												
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALLATION OF HARDWARE_																				
FY96 & PRIOR EQUIPMENT	5	0.2	1	0.1	98	5.1													104	5.4
FY97 EQUIPMENT		*			0	0.0													0	0
FY98 EQUIPMENT					13	0.6	30	1.9	19	1.3							22	0.6	84	4.4
FY99 EQUIPMENT									0	0							19			0.
FY00 EQUIPMENT																				
FY00 EQUIPMENT																				
FY02 EQUIPMENT																				
FY03 EQUIPMENT																				
TO COMPLETE																				
10 001111 12112																				
TOTAL INSTALLATION COST	5	0.2	1	0.1	111	5.7	30	1.9	19	1.3	0	0		0			0	0.0	207	10.
TOTAL PROCUREMENT COST		3.4		0.0		3.1		0.7		0		0.0		0.0						7.2
TOTAL COST		3.6		0.1		8.8		2.6		1.3		0.0		0.0						17.
METHOD OF IMPLEMENTATION: AIT CONTRAC	T				ADMINISTRA	TIVE LEADT	IME:			9 MONTHS		PRODUC	TION LEAD	TIME:		12 MOS				
CONTRACT DATE: PRIOR YEA		Feb-96			CURRENT YE		Feb-97		BUDGET		Feb-98		BUDGET Y			Feb-99				
PRODUCTION DELIVER DATE: PRIOR YEA		Feb-97			CURRENT YE		Nov-97		BUDGET		Nov-99		BUDGET Y			Nov-00				
					0011112111112	-,								_,						
INSTALLATION SCHEDULE:				FY97		FY98		FY99		FY00		FY01	F	Y02	FY03	TC				
INSTALLATION SCHEDULE: INPUT>		FY96						F199				4004			1, 2, 3, 4	1, 2, 3, 4				
		FY96 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	•	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				TOTAL		
INPUT		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4			-	1, 2, 3, 4		1, 2, 3, 4	· -	1, 2, 3, 4	1, 2, 0, 4	-,-,-, -	-			
			_							1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 5, 4	., _, ., .	-	104 0		
INPUT> FY 96 & PRIOR		1, 2, 3, 4		1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16		1, 2, 3, 4				1, 2, 3, 4	-	1, 2, 3, 4	1, 2, 3, 4		-	104		
INPUT	_	1, 2, 3, 4		1, 2, 3, 4	26	1, 2, 3, 4				775		1, 2, 3, 4	- 	1, 2, 3, 4	1, 2, 3, 4	42	_	104 0		
INPUT		1, 2, 3, 4		1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16		1, 2, 3, 4				1, 2, 3, 4	<del>-</del>   	1, 2, 3, 4	1, 2, 0, 4			104 0 84		
FY 96 & PRIOR FY 97 FY 98	_	1, 2, 3, 4		1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16		1, 2, 3, 4				1, 2, 3, 4	   	1, 2, 3, 4		42		104 0 84		
INPUT		1, 2, 3, 4		1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16		1, 2, 3, 4				1, 2, 3, 4	   	1, 2, 3, 4		42		104 0 84 19		
INPUT	_	1, 2, 3, 4 5 0 0 0		1, 2, 3, 4 0 1 0 0	26	1, 2, 3, 4 5 27 29 16 0 0 7 6		1, 2, 3, 4 7 7 7 9 FY99		775 FY00		FY01		Y02	FY03	42 19		104 0 84 19 207		
INPUT		1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4		1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 6 27 29 16 0 0 7 6 FY98 1, 2, 3, 4		7779		775						42 19		104 0 84 19 207		
INPUT	= -	1, 2, 3, 4 5 0 0 0		1, 2, 3, 4 0 1 0 0	26	1, 2, 3, 4 5 27 29 16 0 0 7 6		1, 2, 3, 4 7 7 7 9 FY99		775 FY00		FY01		Y02	FY03	42 19		104 0 84 19 207		
INPUT	=	1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4	<u> </u>	1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16 0 0 7 6 FY98 1, 2, 3, 4 5 27 29 16		1, 2, 3, 4  7 7 7 9  FY99  1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104		
INPUT		1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4		1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 6 27 29 16 0 0 7 6 FY98 1, 2, 3, 4		1, 2, 3, 4 7 7 7 9 FY99		775 FY00		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104 0 84		
INPUT	= :	1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4		1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16 0 0 7 6 FY98 1, 2, 3, 4 5 27 29 16		1, 2, 3, 4  7 7 7 9  FY99  1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104 0 84		
INPUT		1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4	: :	1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16 0 0 7 6 FY98 1, 2, 3, 4 5 27 29 16		1, 2, 3, 4  7 7 7 9  FY99  1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104 0 84		
INPUT		1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4		1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16 0 0 7 6 FY98 1, 2, 3, 4 5 27 29 16		1, 2, 3, 4  7 7 7 9  FY99  1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104 0 84		
INPUT		1, 2, 3, 4 5 0 0 0 FY96 1, 2, 3, 4		1, 2, 3, 4 0 1 0 0 FY97 1, 2, 3, 4	26	1, 2, 3, 4 5 27 29 16 0 0 7 6 FY98 1, 2, 3, 4 5 27 29 16		1, 2, 3, 4  7 7 7 9  FY99  1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		Y02	FY03	42 19 TC 1, 2, 3, 4		104 0 84 19 207 TOTAL 104 0 84 19 207	P-3A	

CLASSIFICATION: UNCLASSIFIED																			FEBRUARY 1	997	
P3A MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED:			INDIVIDUAL N CONTROL EQUIF FER UNIT CONVE	PMENT	N				POLLUTION C	ONTROL EQ	UIPMENT										
DESCRIPTION/JUSTIFICATION:																		то	то		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																		COMP	COMP	TOTAL	TOTAL
			FY96															COMP	COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	-	QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
LINATOIAL I LAW (IN INILLIONS)																					
RDT&E																					
PROCUREMENT																					
QUANTITY		159		0		250		168												577	0
INSTALLATION KITS		*																			
INSTALLATION KITS NONRECURRING																					
EQUIPMENT			4.9		0		8.7		6.5												20.1
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALLATION OF HARDWARE																					
EVAN A PRIOR FOUNDMENT																					
FY96 & PRIOR EQUIPMENT		19	0.6	21	1.0	119	6.3													159	7.9
FY97 EQUIPMENT			**			0	0.0													0	0.0
FY98 EQUIPMENT						0	0.0	157	10.7	93	6.1									250	16.8
FY99 EQUIPMENT										75	5.0							9:	3 6.2	168	11.2
FY00 EQUIPMENT																					
FY01 EQUIPMENT																					
FY02 EQUIPMENT																					
FY 03 EQUIPMENT																					
TO COMPLETE																					
TOTAL INSTALLATION COST		19	0.6	21	1.0	119	6.3	157	10.7	168	11.1	0	0	0	0	0	0	93	6.2	577	35.9
TOTAL PROCUREMENT COST			4.9		0.0		8.7		6.5		0.0		0.0		0.0		0.0		0.0		20.1
TOTAL COST			5.5		1.0		15.0		17.2		11.1		0.0		0.0		0.0		6.2		56
METHOD OF IMPLEMENTATION: AIT	CONTRACT					ADMINISTRAT	TIVE LEADTIME				9		PPOI	DUCTION LEA	DTIME:		12 MOS				
CONTRACT DATE:	PRIOR YEAR:		Feb-96			CURRENT YE		•		BUDGET YE		Feb-98	i kol	BUDGET YE		Feb-99	12 11100				
PRODUCTION DELIVER DATE:	PRIOR YEAR:		Feb-96			CURRENT YE				BUDGET YE		Feb-99		BUDGET YE		Feb-99					
PRODUCTION DELIVER DATE:	PRIOR TEAR:		Feb-97			CURRENT TE	AK:			BUDGET TE	AK:	rep-99		BUDGET TE	AR Z:	reb-00					
INSTALLATION SCHEDULE:																					
INPUT>	FY96		FY97		FY98		FY99		FY00		FY01		FY02	_	FY03		TC	_			
	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	=	1, 2, 3, 4	=	1, 2, 3, 4	-	1, 2, 3, 4	=	TOTAL	=	
FY 96 & PRIOR	0 0 8 10		10 57 33 34		7														159		
FY 97					0														0		
FY 98							0 32 29 32		39 39 79 0										250		
FY 99									0 84 84 0										168		
FY 00																					
FY 01																					
FY 02																					
FY 03																			577		
тс																					
OUTPUT>	FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY03		тс				
OV(FUI	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	TOTAL		
FY 96 & PRIOR	0053		10 16 0 6		29 29 29 32		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4		159		
FY 96 & PRIOR FY 97	0053		10 16 0 6		za za 29 32														159 0		
FY 98							0 0 32 29		32 39 39 79										250		
FY 99									0 0 33 42										75		
FY 00																					
FY 01																					
FY 02																					
FY 03																			484		
TC																					
I.O. IS 713.																					P-3A
							ITEM 14			PAGE 23							TION: UNCLA				

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ITEM 14

CLASSIFICATION: UNCLASSIFIED

INCLUDES 53 UNITS PROCURED IN 95 & PRIOR

<sup>\*\* \$.5</sup>M OF FY 96 FUNDS FOR ADVANCE PLANNING.

CLASSIFICATON: UNCLASSIFIED FEBRUARY 1997

P3A MODIFICATION TITLE:

INDIVIDUAL MODIFICATION POLLUTION CONTROL EQUIPMENT

MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION:
MI
DEVEL OPMENT STATUS/MA FOR DEVEL OPMENT MILESTONES:

CFC-114 AC UNIT CONVERSION MODIFIES CFC-114 AC UNITS

то

то

POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:		IES CFC-114 AC I	INITS												то	то		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILES	STONES:	=1/00													COMP	COMP		TOTAL
1		FY96			<b></b>											COMP		
	QTY	PRIOR QT	' FY 97	QTY FY	98 QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E PROCUREMENT																		
QUANTITY				8	49		39		43		54		42		339		574	•
INSTALLATION KITS				0	49		39		43		54		42		339		5/4	0
INSTALLATION KITS INSTALLATION KITS NONRECURRING																		
EQUIPMENT				5	3.2	12.8		8.7		11.7		13.2		12.3		101.7		163.6
EQUIPMENT NONRECURRING				•				· · ·										
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALLATION OF HARDWARE																		
FY96 & PRIOR EQUIPMENT																		
FY97 EQUIPMENT																		
FY98 EQUIPMENT				AP 1	.2 8	4.9											8	6.1
FY99 EQUIPMENT							49	15.6									49	15.6
FY00 EQUIPMENT								10.0	39	13.0							39	13.0
FY01 EQUIPMENT									39	13.0								
											43	17.6					43	17.6
FY02 EQUIPMENT													54	19.9			54	19.9
FY 03 EQUIPMENT																		
TO COMPLETE															381	141.3	381	141.3
TOTAL INSTALLATION COST	0	0 0	0	0 1	.2 8	4.9	49	15.6	39	13.0	43	17.6	54	19.9	381	141.3	574	213.5
TOTAL PROCUREMENT COST					3.2	12.8		8.7		11.7		13.2		12.3		101.7		163.6
TOTAL COST		0.0	0.0		.4	17.7		24.3		24.7		30.8		32.2		243.0		377.1
METHOD OF IMPLEMENTATION: AIT CO	ONTRACT			ADMINISTR A	TIVE LEADT	ME:		9		PRODU	CTION LE	ADTIME:		9 MOS				
	RIOR YEAR:			CURRENT Y			BUDGET		Apr-98		BUDGET			Dec-98				
PRODUCTION DELIVER DATE: PF	RIOR YEAR:			CURRENT Y	EAR:		BUDGET	YEAR:	Jan-99		BUDGET	YEAR 2:		Dec-99				
INSTALLATION SCHEDULE:																		
	FY96	FY97	FY98	F'	/99	FY00		FY01		FY02		FY03		TC				
	, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4		, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		TOTAL		
FY 96 & PRIOR							_				-		_		-			
FY 97																		
FY 98					4 4											8		
FY 99						4 11 14 20	)									49		
FY 00								13 3 12 11								39		
FY 01										12 9 9 13						43		
FY 02 FY 03												16 14 14 10				54		
TC														381		381 574		
OUTD: T	FVOO	FVOT	F1 (0.0	_	<b>100</b>	<b>F</b> 1.00		P1		<b>P</b> 1.400		F1/00						
	FY96 , 2, 3, 4	FY97 1, 2, 3, 4	FY98 1, 2, 3, 4		<u>/99</u> , 3, 4	FY00 1, 2, 3, 4	_	FY01 1, 2, 3, 4	_	FY02 1, 2, 3, 4		FY03 1, 2, 3, 4	-	TC 1, 2, 3, 4		TOTAL		
FY 96 & PRIOR	, _, 0, 4	1, 2, 0, 4	1, 2, 3, 4	1, 2	, , , ,	1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		TOTAL		
FY 97																		
FY 98					4 4											8		
FY 99						4 11 14 20	1									49		
FY 00								13 3 12 11								39		
FY 01										12 9 9 13						43		
FY 02												16 14 14 10				54		
FY 03														381		381		
TC																574		D 2 4
I.O. IS 574.					M 14		DAGE			4				ICATION:				P-3A

CLASSIFICATION: UNCLA	ASSIFIED																		FEBRUARY	1997	
P3A		<b>.</b>	INDIVIDUAL						POLLUTI	ON CON.	TROL EQU	NPMENT									
MODIFICATION TITLE:			JTION CONTRO																		
MODELS OF SYSTEM AFFE	CTED:		GE PUMP/GRE																		
DESCRIPTION/JUSTIFICATION	ON:	COLLI	CT GREYWATI	ER (PLUN	IBING WAS	STE FRO	M SHOWE	RS ETC.)	& DISCH	ARGE IT	TO PIERSI	DE SEW	AGE FACI	LITIES							
DEVELOPMENT STATUS/MA	AJOR DEVELOPMENT MILESTONES:			-				-										то	то		
22122012111.01711.0077			FY96 &															COMP	COMP	TOTAL	TOTAL
		QTY		QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIO	ONS)		ricion	٧,,,	1101	٧,,,	1130	۹	1100	411	1100	<u> </u>	1101	۹	1102	٧,,,	1100	٠,,,	0001	۷,11	0001
THANOIAE I EAN (IN INIEELO	210)																				
RDT&E																					
PROCUREMENT																					
QUANTITY		6																		6	
INSTALLATION KITS		•																		•	
INSTALLATION KITS NONR	RECURRING																				
EQUIPMENT			2.2																	0	2.2
EQUIPMENT NONRECURRI																					
ENGINEERING CHANGE OF	RDERS																				
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
INTERIM CONTRACTOR SU	UFFUKI																				
INSTALLATION OF HARDWA	ARE_																				
FY96 & PRIOR EQUIPMENT	-		4.0	4.0		•	4.0														4.0
		3	1.9	AP	0.2	3	1.9													6	4.0
FY97 EQUIPMENT																					
FY98 EQUIPMENT																					
FY99 EQUIPMENT																					
FY00 EQUIPMENT																					
FY00 EQUIPMENT																					
FY02 EQUIPMENT																					
FY03 EQUIPMENT																					
TO COMPLETE																					
TOTAL INSTALLATION COS	т	3	1.9	AP	0.2	3	1.5											0	0.0	6	4
TOTAL PROCUREMENT CO.	et.		2.2		0.0		0.0												0.0		2.2
TOTAL PROCUREMENT COS	31		2.2		0.0		0.0												0.0		2.2
TOTAL COST			4.1		0.2		1.5												0.0		6.2
METHOD OF IMPLEMENTAT	TION: AIT	CONTRACT				A DMINIS	STRATIVE	LEADTIM	F.		9 MOS		BBOBLI	STIONIE	ADTIME:		12 MOS				
	ION: AII							LEADIIM					PRODUC				12 WOS				
CONTRACT DATE:		PRIOR YEAR:	Dec-93				NT YEAR:			BUDGET					T YEAR 2:						
PRODUCTION DELIVER DAT	TE:	PRIOR YEAR:	Dec-94			CURRE	NT YEAR:			BUDGET	YEAR:			BUDGE	T YEAR 2:						
INSTALLATION SCHEDULE:																					
ING I ALLA HON SOMEDULE:	: INPUT>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		тс				
	1141 01			-			1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	TOTAL		
	EV as a PRIOR	1, 2, 3, 4	1, 2, 3, 4	-	1, 2, 3, 4	•	1, 2, 3, 4		1, 2, 3, 4	•	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4	-	TOTAL	-	
	FY 96 & PRIOR	3			3														6		
	OUTPUT>	FY96	FY97	_	FY98	_	FY99		FY00	_	FY01		FY02	_	FY03	_	TC	_			
		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		TOTAL		
	FY 96 & PRIOR		3				3							-					6		
.O. IS 6.																					
.0. 10 0.																				P-3A	
							ITEM 14			DAGE	25						EICATION:			1 -JA	

M																			FEBRUARY 1997	,
P3A	DOLL 117			IFICATION				POLLUTION	ON CON	TROL EQU	JIPMEN	Г								
MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED:		TION CONT E PUMP/G			:PM\															
DESCRIPTION/JUSTIFICATION:		CT GREYW				WERS. LAL	JNDRY A	ND DISCH	ARGE IT	TO PIERS	SIDE SE	WAGE FAC	ILITIES							
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MIL		S:				,											то	то		
· 1	OTY	FY96	OTV	EV 07	OTV	EV 00	OTY	EV 00	OTV	EV 00	OTY	EV 04	OTV	EV 00	OTV	EV 00	COMP	COMP	TOTAL	
FINANCIAL PLAN (IN MILLIONS)	QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
I INAMORE I EAN (IN INICEIONO)																				
RDT&E																				
PROCUREMENT					•														40	
QUANTITY INSTALLATION KITS	4		4		2														10	
INSTALLATION KITS NONRECURRING																				
EQUIPMENT		0.2		0.4		0.2													0	0.8
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALLATION OF HARDWARE																				
FY96 & PRIOR EQUIPMENT	AP	0.5	2	1.8	2	3.4													4	4.9
FY97 EQUIPMENT		0	_		-		2	3.1	AP	0.2	2	2.7							4	6.0
FY98 EQUIPMENT							_	•	<i>,</i>	V	2	2.5							2	2.4
FY99 EQUIPMENT											_	0							_	
FY00 EQUIPMENT																				
FY01 EQUIPMENT																				
FY02 EQUIPMENT																				
FY 03 EQUIPMENT																				
TO COMPLETE																			0	0
TOTAL INSTALL ATION 0007	AP	0.5	2	1.8	2	2.4	2	2.4	AP	0.0	4	5.2							40	40.0
TOTAL INSTALLATION COST	AF	0.5		1.0		3.4		3.1	AF	0.2	4	3.2							10	13.3
TOTAL PROCUREMENT COST		0.2		0.4		0.2		0.0		0.0		0.0								0.8
TOTAL COST		0.7		2.2		3.6		3.1		0.2		5.2								14.1
METHOD OF IMPLEMENTATION: SHIPYD CONTR						STRATIVE	LEADTIN			MONTHS	;	PRODUC				18 MOS				
CONTRACT DATE: PRIOR S PRODUCTION DELIVER DATE: PRIOR S		Apr-96				NT YEAR:		Feb-97						YEAR 2:						
PRODUCTION DELIVER DATE: PRIOR	TEAK:	Oct-97			CURRE	NT YEAR:		Aug-98	BUDGE	TEAR:		Aug-99	BUDGE	YEAR 2:						
INSTALLATION SCHEDULE:																				
INPUT> FY96	_	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
1, 2, 3, 4	<u>.</u>	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 96 & PRIOR		4		2		2												4		
FY 97 FY 98				2		2				2								2		
TC										2								0		
10																		10		
																		. •		
OUTPUT> FY96	-	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC		TOTAL		
1, 2, 3, 4	<u>-</u>	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 96 & PRIOR FY 97		4		2		2												4 4		
FY 98				4						2								2		
TC TC										_								0		
10																		10		
I.O. IS 10.																				
						ITEM 41			DACE	26					CI 400:	TICATION:	LINO: A		P-3A	
						ITEM 14			PAGE	26					CLASSII	FICATION:	UNCLAS	SOIFIED		

CLASSIFICATION: UNCLASSIFIED																			FEBRUARY	1997
P3A MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED:		POLLUTION METAL GLA	N CONTR ASS SHRI	OL EQUIP EDDER		220011 01	/FDD0.45													
DESCRIPTION/JUSTIFICATION:		PROCESS	METALA	ND GLASS	S FOR DIS	SPOSAL O	/ERBOAF	KD.												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTO																	TO	TO COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
RDT&E																			0	0.0
PROCUREMENT																			0	0.0
QUANTITY																			0	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT					123	8.9	49	3.7											172	12.6
EQUIPMENT NONRECURRING					123	0.9	49	3.7											0	0.0
ENGINEERING CHANGE ORDERS																				
																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT *					3	0.3													3	0.3
SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY 96 & PRIOR																			0	0.0
FY97 EQUIPMENT																			0	0.0
F197 EQUIPMENT																				
EVOC FOLUDATAT					4.0	0.0	4.0	0.5	4.0	0.0									0	0.0
FY98 EQUIPMENT					AP	2.9	AP	0.5	AP	0.0									0	3.4
EV 00 EQUIDATENT					7	4.1	96	43.7	20	6.7									123	54.5
FY 99 EQUIPMENT					AP	0.1	AP	1.1	AP	0.1									0	1.3
						0.1	3	1.3	43	16.2	3	1.5							49	19.1
FY00 EQUIPMENT																			0	0.0
FY01 EQUIPMENT																			0	0.0
FYO2 EQUIPMENT																			0	0.0
FYO3 EQUIPMENT																			0	0.0
																			0	0.0
TO COMPLETION																			0	0.0
TOTAL INSTALLATION COST		0.0		0.0		7.2		46.6		23.0		1.5		0.0		0.0		0.0	172	78.3
TOTAL PROCUREMENT COST		0.0		0.0		9.2		3.7		0.0		0.0		0.0		0.0		0.0		12.9
TOTAL C OST		0.0		0.0		16.4		50.3		23.0		1.5		0.0		0.0		0.0		91.2
METHOD OF IMPLEMENTATION: SHIPYARD					V DWINIG.	TRATIVE LI	EVDTIME	:.	12			DD OD II	CTION LE	ADTIME:		9				
	PRIOR YEAR:				CURREN		EADTINE		BUDGET	VEAD.		Oct-97		BUDGET	VEAD 2.	9	Jul-99			
	PRIOR YEAR:				CURREN				BUDGET			Jul-98		BUDGET			Jul-99			
INSTALLATION SCHEDULE:																				
INPUT =====>	FY96	FY97	_	FY98		FY99		FY00		FY01		FY02		FY03		TC				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 98				0007		27 33 20 16		15 5 0 0										123		
FY 99						0 0 0 3		5 20 15 3		3 0 0 0								49		
FY 00																		0		
FY 01																		0		
OUTPUT ====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC		172		
	1, 2, 3, 4	1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 98		-, -, -, -	-	, =, =, .		7 27 33 20		16 15 5 0	-				-	,-,-, .				123		
FY 99						. 2. 30 20		3 5 20 15		3 3 0 0								49		
FY 00								3 0 20 10		5 5 6 6								0		
FY 01																		0		
1101																		172		
* 3 TRAINERS REQUIRE NO INSTAL	LATION																	112		

THE TOTAL PROGRAM QUANTITY REFLECTS THE INVENTORY OBJECTIVE FOR THIS ITEM

CLASSIFICATION: UNCLASSIFIED																			FEBRUARY	1997
P3A MODIFICATION TITLE: MODELS OF SYSTEM AFFECTED:		LARGE SO	ON CONTI	ROL EQUIF STE PULPE	R															
DESCRIPTION/JUSTIFICATION:		PROCESS	S FOOD, F	PAPER AND	O OTHER	NON PLAS	TIC WAS	STE FOR D	ISPOSAL	OVERBOA	RD									
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTO	NES:																TO	TO		
	QTY	EV 00	OT)/	EV 07	OTV	E)/ 00	OTV	FV 00	OT)	EV 00	OTV	E) ( 04	OTV	F)/ 00	OTV	F)/ 00	COMP	COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QIY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
<u>RDT&amp;E</u>																			0	0.0
<u>PROCUREMENT</u>																			0	0.0
QUANTITY																			0	0.0
INSTALLATION KITS																			0	0.0
INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT					109	19.2	37	5.6											146	24.8
EQUIPMENT NONRECURRING																			0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT *					3	0.5													3	0.5
SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY 96 & PRIOR																			0	0.0
																			0	0.0
FY97 EQUIPMENT																			0	0.0
																			0	0.0
FY98 EQUIPMENT					AP	8.0	AP	1.7	AP	0.0									0	9.7
					7	7.5	84	78.5	18	16.7									109	103
FY 99 EQUIPMENT					AP	0.3	AP	2.6	AP	0.2									0	3.1
						0.3	2	2.3	32	27.6	3	3.0							37	33.2
FY00 EQUIPMENT																			0	0.0
FY01 EQUIPMENT																			0	0.0
FYO2 EQUIPMENT																			0	0.0
FYO3 EQUIPMENT																			0	0.0
TO COMPLETION																			0	0.0
TO COMPLETION																			0	0.0
TOTAL INSTALLATION COST		0.0		0.0		16.1		85.1		44.5		3.0		0.0		0.0		0.0	146	148.7
TOTAL PROCUREMENT COST		0.0		0.0		19.7		5.6		0.0		0.0		0.0		0.0		0.0		25.3
TOTAL C OST		0.0		0.0		35.8		90.7		44.5		3.0		0.0		0.0		0.0		174.0
METHOD OF IMPLEMENTATION: SHIPYARD					ADMINIS	TRATIVE L	EADTIME	E:	12			PRODI II	CTION LE	ADTIME:		9				
	PRIOR YEAR:				CURREN		_,		BUDGET	YFAR.		Oct-97		BUDGET '	YFAR 2	-	Jul-99			
	PRIOR YEAR:				CURREN				BUDGET			Jul-98		BUDGET			Jan-00			
INSTALLATION SCHEDULE:																				
INPUT =====>	FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 98	1, 4, 3, 4	1, 2, 3, 4		0 0 0 7		26 28 15 15		12 6 0 0		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		101AL		
FY 98 FY 99				0007		0 0 0 2	,	6 13 11 2		3000								37		
FY 99 FY 00						0002		0 10 11 2	_	3000								0		
FY 00																		0		
FIVI																		146		
OUTPUT ====>	FY96	FY97		FY98	_	FY99		FY00	_	FY01	_	FY02	_	FY03		TC				
-	1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 98	,					7 26 28 15		15 12 6 0					•					109		
FY 99								2 6 13 11		2 3 0 0								37		
FY 00																		0		
FY 01																		0		
																		146		
* 3 TRAINERS REQUIRE NO INSTAL	LATION																			

THE TOTAL PROGRAM QUANTITY REFLECTS THE INVENTORY OBJECTIVE FOR THIS ITEM

P3A	.0		INDIVIDU	AL MODIE	ICATION															FEBRUARY	f 1997
MODIFICATION TITLE:					ROL EQUIF	PMENT															
MODELS OF SYSTEM AFFECTED	):				STE PULPE																
DESCRIPTION/JUSTIFICATION:	•				PAPER AND		NON DI AS	TIC WAS	TE EOP DI	SDOSAL	\\EBBOA	PD									
DEVELOPMENT STATUS/MAJOR	DEVELOPMENT MILESTON	JES:	TROOLO	31 000,1	70 2107042	JOHNER	110111 1210	110 11/10	TE TOIL DI	01 00/12	SVERDON	I L						то	то		
DEVELOR MEINT OF A TOO MIN WORK	DEVELOT MICHT MILECTON	<b>1</b> LO.																COMP	COMP	TOTAL	TOTAL
		QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)															-						
RDT&E																				0	0.0
PROCUREMENT																				0	0.0
QUANTITY																				0	0.0
INSTALLATION KITS																				0	0.0
INSTALLATION KITS NONRECUR	RRING																			0	0.0
EQUIPMENT	titil to					19	2.1	13	1.2											32	3.3
EQUIPMENT NONRECURRING						13	2.1	13	1.2											0	0.0
ENGINEERING CHANGE ORDER	9																			0	0.0
DATA	.0																			0	0.0
TRAINING EQUIPMENT *						3	0.3													3	0.3
SUPPORT EQUIPMENT						3	0.3													0	0.0
OTHER																				0	0.0
INTERIM CONTRACTOR SUPPOI	DT																			0	0.0
INTERIM CONTRACTOR SUPPOR	KI																			U	0.0
INSTALLATION OF HARDWARE																					
FY 96 & PRIOR																				0	0.0
FY97 EQUIPMENT																				0	0.0
5/00 50/1154545																				0	0.0
FY98 EQUIPMENT						.AP	8.0	AP	0.2	AP	0.0									0	1.0
							0.2	16	9.4	3	2.4									19	12
FY 99 EQUIPMENT								AP	0.7	AP	0.0									0	0.7
								1	0.7	12	7.9									13	8.6
FY00 EQUIPMENT																				0	0.0
FY01 EQUIPMENT																				0	0.0
FYO2 EQUIPMENT																				0	0.0
FYO3 EQUIPMENT																				0	0.0
																				0	0.0
TO COMPLETION																				0	0.0
TOTAL INSTALLATION COST			0.0		0.0		1.0		11.0		10.3		0.0		0.0		0.0		0.0	32	22.3
TOTAL PROCUREMENT COST			0.0		0.0		2.4		1.2		0.0		0.0		0.0		0.0		0.0		3.6
TOTAL C OST			0.0		0.0		3.4		12.2		10.3		0.0		0.0		0.0		0.0		25.9
METHOD OF MADIENCE AT A TION	OLUBY (ADD								_				22.02.14								
METHOD OF IMPLEMENTATION: CONTRACT DATE:		DIOD VEAD					TRATIVE L	EADTIME		12	VEAD:			CTION LE		VEAD 0:	9	1-1-00			
		RIOR YEAR:				CURREN				BUDGET			Oct-97		BUDGET			Jul-99			
PRODUCTION DELIVER DATE:	P	RIOR YEAR:				CURREN	I YEAR:			BUDGET	YEAR:		Jul-98		BUDGET	YEAR 2:		Jan-00			
INSTALLATION SCHEDULE:																					
INPUT ===		FY96	FY97		FY98		FY99		FY00		FY01	_	FY02		FY03		TC				
	1	, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL	-	
FY 98		-			0000		2 6 6 2		3 0 0 0										19		
FY 99							0 0 0 1		1 5 5 1		0 0 0 0								13		
FY 00																			0		
FY 01																			0		
																			32		
OUTPUT =	====>	FY96	FY97	_	FY98	_	FY99		FY00		FY01	_	FY02		FY03		TC				
		, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 98	_						0 2 6 6		2 3 0 0			•							19		
FY 99									1 1 5 5		1 0 0 0								13		
FY 00																			0		
FY 01																			0		
																			32		
* 3 TRAINE	ERS REQUIRE NO INSTALL	ATION																			
	AL PROGRAM QUANTITY RI		NVENTORY	OBJECTI	VE FOR TH	IIS ITEM															P-3A

FEBRUARY 1997

MODIFICATION TITLE:				TROL EQU	IPMENT															
MODELS OF SYSTEM AFFECTED:		BILGE PU		DII OF 14/4		M DII OF V	MELLO T	0 011 1/14/4	OTE 1101	DINIO TAR	WO FOR	DDOOFOO	INIO DVIT							
DESCRIPTION/JUSTIFICATION:	NEO	TRANSFE	ROILY	BILGE WA	IER FRO	M BILGE V	WELLS I	O OILY WA	STEHOL	DING TAN	NKS FOR	PROCESS	INGBYI	HE OWS.			то	то		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTO	NES: QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	COMP	COMP	TOTAL QTY	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QIT	& PRIOR	QII	F1 9/	QIT	F1 90	QIT	F1 99	QII	F1 00	QII	FTUI	QIT	F1 U2	QIT	F1 U3	QIT	COST	QIT	CO31
RDT&E																			0	0.0
PROCUREMENT.	45				40														27	0.0
QUANTITY INSTALLATION KITS	15				12														0	0.0
INSTALLATION KITS INSTALLATION KITS NONRECURRING																			0	0.0
EQUIPMENT	15	0.2			12	0.3													27	0.5
EQUIPMENT NONRECURRING	15	0.2			12	0.3													0	0.0
ENGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
TRAINING EQUIPMENT																			0	0.0
SUPPORT EQUIPMENT																			0	0.0
OTHER																			0	0.0
INTERIM CONTRACTOR SUPPORT																			0	0.0
INSTALLATION OF HARDWARE																				
FY96 EQUIPMENT & PRIOR	2	0.5	4	0.5	4	0.3	3	0.0											13	1.3
FY97 EQUIPMENT	_	0.0	-	0.0	-	0.0	Ū	0.0											0	0.00
FY98 EQUIPMENT							3	0.00	9	0.00									12	0.00
FY99 EQUIPMENT							Ū	0.00	3	0.00									0	0.00
FY00 EQUIPMENT																			0	0.00
FY01 EQUIPMENT																			0	0.00
FY02 EQUIPMENT																			0	0.00
FY03 EQUIPMENT																			0	0.00
TO COMPLETE																			0	0.00
TOTAL INSTALLATION COST		0.5		0.5		0.3		0.0		0.0		0.0		0.0		0.0		0.0	25.0	1.3
TOTAL PROCUREMENT COST		0.2		0.0		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.5
TOTAL COST		0.7		0.5		0.6		0.0		0.0		0.0		0.0		0.0		0.0		1.8
METHOD OF IMPLEMENTATION: AIT/SHIPYARD						TRATIVE	LEADTIM	IE:				PRODUCT				12				
	OR YEAR:					IT YEAR:			BUDGET					BUDGET						
PRODUCTION DELIVER DATE: PRI	OR YEAR:				CURREN	IT YEAR:		12 99	BUDGET	YEAR:				BUDGET \	YEAR 2:					
INSTALLATION SCHEDULE:																				
	<u> 196</u>	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
1, 2	, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		TOTAL		
	2	2 2		4 0 2		3												15		
FY 97																		0		
FY 98						3		9										12		
FY 99																		0		
OUTPUT ====> F	/OC	E)/07		EV/00		E\/00		EV/00		EV/04		EV/00		EV/00		TO		27		
	<u>/96</u>	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC		TOTAL		
1, 2 FY 96 & PRIOR	, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	•	TOTAL 15		
FY 97		2 2 2		4 2		3												0		
FY 97 FY 98								3		9								12		
FY 98 FY 99								3		9										
F1 99																		0		
																		27		
.O. IS 27.																		27		

## UNCLASSIFIED

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/l	BA/BSA/Item	Control No.		Date: Februa	ary 1997	
P-1 Line Item Nomeno (Include DODIC for A	=		Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne	
(Include DODIC for A	Ammunition items)	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF040 Suppor	t Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		FY 2003
Buy Summary		3	3	4	2	2	3	4	4
Unit Cost		71.3	83.3	86	89.5	90	92	94	96
Total Cost		214	250	344	179	180	276	376	384
<b>Asset Dynamics</b>									
Beginning Asset Posit		37	40	42	46	48	51	54	58
Deliveries from all pri		3							
Deliveries from FY 97	funding 7		2	1					
Deliveries from FY 98	3 funding			3	1				
Deliveries from FY 99	funding				1	1			
Deliveries from subse	quent years' funding					2	3	4	4
Other Gains									
Combat Losses/Usage									
Training Losses/Usage	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements	s/Attritions/etc.								
End of Year Asset Po	osition	40	42	46	48	51	54	58	62
Inventory Objective or	r Current Authorized Allowance	68	68	68	68	68	68	68	68
	1								
Inventory Objective 68	Actual Training Expenditures	Other than T Usage	raining	Disposals (Vehicles/Ot	her)	Vehicles Elig BY1 Replace	-	Aircraft: TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:	
Combat Loads:	:	:		:		BY2 Replace	ement:	TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:
Pipeline:	PY-2:	PY-2:		PY-2:				BAI	
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:	
TOTAL:								Storage:	
REMARKS:						<u> </u>			

P-1 Shopping List Item No 14

Page No 31 **Exhibit P-20 Requirements Study** 

## UNCLASSIFIED

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: Febru	ary 1997	
P-1 Line Item Nomen			Admin Lead	time (after Oc	et 1): xx mont	hs	Prod Leadtin	ne	
(Include DODIC for A	Ammunition Items)	T===		I=	T=	T==== .		I	T==== .
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF042 Boom T	Cend Boats	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			1		2		2		3
Unit Cost			90		95		99		98.6
Total Cost			90		190		198		295.8
<b>Asset Dynamics</b>		8	8	9	9	11	11	13	13
Beginning Asset Posit									
Deliveries from all pri									
Deliveries from FY 97	7 funding		1						
Deliveries from FY 98	3 funding								
Deliveries from FY 99	9 funding				2				
Deliveries from subse	quent years' funding						2		3
Other Gains									
Combat Losses/Usage									
Training Losses/Usag	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements									
End of Year Asset Po	osition	8	9	9	11	11	13	13	
Inventory Objective o	r Current Authorized Allowance	22	22	22	22	22	22	22	22
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	gible for	Aircraft:	
22		Usage		(Vehicles/Ot	ther)	BY1 Replace		TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig	gible for	PAA:	
Combat Loads:	:	:		:		BY2 Replace	ement:	TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:
Pipeline:	PY-2:	PY-2:		PY-2:				BAI	
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:	
TOTAL:								Storage:	
REMARKS:				-		-		-	

P-1 Shopping List Item No14

Page No 32 **Exhibit P-20 Requirements Study** 

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997			
P-1 Line Item Nomeno (Include DODIC for A			Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne		
(iliciade DODIC for A	illinumuon items)	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF051 Oil Boo	m Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		FY 2003	
Buy Summary		3	4	5	3	4	3	3	3	
Unit Cost		225	239.7	241.2	243	245	248	251	254	
Total Cost		675	959	1206	729	980	744	753	762	
<b>Asset Dynamics</b>										
Beginning Asset Posit	ion	15	18	20	23	24	28	30	32	
Deliveries from all pri-	or year funding	3								
Deliveries from FY 97	funding		2	2						
Deliveries from FY 98	funding			3	2					
Deliveries from FY 99	funding				1	2				
Deliveries from subsec	quent years' funding					4	3 3		3	
Other Gains										
Combat Losses/Usage										
Training Losses/Usage										
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements	/Attritions/etc.			2	2			1	1	
End of Year Asset Po	sition	18	20	23	24	28	30	32	34	
Inventory Objective or	Current Authorized Allowance	46	46	46	46	46	46	46	46	
	·									
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	-	Aircraft:		
46		Usage		(Vehicles/Ot	her)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:		
Combat Loads:	:	:		:		BY2 Replace		TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	<u> </u>		:	
Pipeline:	PY-2:	PY-2:		PY-2:			BAI			
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:	· · · · · · · · · · · · · · · · · · ·									

Page No 33 **Exhibit P-20 Requirements Study** 

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997			
P-1 Line Item Nomen	clature		Admin Lead	ltime (after Oc	t 1): xx mont	hs	Prod Leadtin	ne		
(Include DODIC for A	Ammunition Items)									
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF054 Beach T	Transfer Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary				1	2			2		
Unit Cost				64	64			67		
Total Cost				64	128			134		
<b>Asset Dynamics</b>										
Beginning Asset Posit	tion	1	. 2	2 2	3	5	5	5	7	
Deliveries from all pri	or year funding	1								
Deliveries from FY 97	7 funding									
Deliveries from FY 98	3 funding			1						
Deliveries from FY 99	9 funding				2					
Deliveries from subse	quent years' funding						2			
Other Gains										
Combat Losses/Usage										
Training Losses/Usage	e									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements	s/Attritions/etc.									
End of Year Asset Po	osition	2	2	2 3	5	5	5	7	0	
Inventory Objective of	r Current Authorized Allowance	8	8	8	8	8	8	8	8	
Inventory Objective	Actual Training Expenditures	Other than T	`raining	Disposals		Vehicles Elig		Aircraft:		
8		Usage		(Vehicles/Ot	her)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:		
Combat Loads:	:	:		:		BY2 Replace		TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:	MARKS:									

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997			
P-1 Line Item Nomen	clature		Admin Lead	time (after Oc	et 1): xx mont	hs	Prod Leadtin	ne		
(Include DODIC for A	Ammunition Items)									
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF055 Salv Sk	kimmer Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary			1		1	2		1	1	
Unit Cost			88		92	95		96	98	
Total Cost			88		92	190		96	98	
<b>Asset Dynamics</b>										
Beginning Asset Posit		2	2	3	3	4	6	6	7	
Deliveries from all pri										
Deliveries from FY 97			1							
Deliveries from FY 98										
Deliveries from FY 99	8				1					
Deliveries from subse	quent years' funding					2	1		1	
Other Gains										
Combat Losses/Usage										
Training Losses/Usag	e									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements										
End of Year Asset Po		2							8	
Inventory Objective o	r Current Authorized Allowance	11	11	11	11	11	11	11	11	
Inventory Objective 11	Actual Training Expenditures	Other than T Usage	raining	Disposals (Vehicles/Ot	her)	Vehicles Elig BY1 Replace	-	Aircraft: TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru	,	Vehicles Elig		PAA:		
Combat Loads:	:	:		:		BY2 Replace		TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug			:	
Pipeline:	PY-2:	PY-2:		PY-2:			BAI			
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:							1 0			

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997			
P-1 Line Item Nomeno	clature		Admin Lead	time (after Oc	t 1): xx mont	ths	Prod Leadtin	ne		
(Include DODIC for A	Ammunition Items)									
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF056 Equip (	Clean-up Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary			1	1			1			
Unit Cost			95	95			97			
Total Cost			95	95			97			
<b>Asset Dynamics</b>										
Beginning Asset Posit	ion	3	3	4	. 5	5	5 5 6			
Deliveries from all pri										
Deliveries from FY 97	Č		1							
Deliveries from FY 98	3 funding			1						
Deliveries from FY 99	9 funding									
Deliveries from subsec	quent years' funding						1			
Other Gains										
Combat Losses/Usage										
Training Losses/Usage	e									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements	s/Attritions/etc.									
End of Year Asset Po	osition	3	4	. 5	5	5	6	6		
Inventory Objective or	r Current Authorized Allowance	8	8	8	8	8	8	8	:	
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals	•	Vehicles Eli	gible for	Aircraft:	•	
8		Usage	_	(Vehicles/Ot	her)	BY1 Replace	_	TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Eli	gible for	PAA:		
Combat Loads:	:	:		:		BY2 Replace	ement:	TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:	-			•						

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/l	BA/BSA/Item	Control No.		Date: February 1997			
P-1 Line Item Nomeno	clature	L	Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne		
(Include DODIC for A	Ammunition Items)									
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF057 Logistic	s Support Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary		2	3	3	3	2	3	3	4	
Unit Cost		161.5	168	170	174	178	182	185	188	
Total Cost		323	504	510	522	356	546	555	752	
<b>Asset Dynamics</b>										
Beginning Asset Posit	ion	4	6	8	11	14	17	20	23	
Deliveries from all pri	or year funding	2								
Deliveries from FY 97	funding		2	1						
Deliveries from FY 98	3 funding			2	1					
Deliveries from FY 99	funding				2	1				
Deliveries from subsec	quent years' funding					2	3 3		4	
Other Gains										
Combat Losses/Usage										
Training Losses/Usage	2									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements										
End of Year Asset Po	osition	6			14				27	
Inventory Objective or	r Current Authorized Allowance	50	50	50	50	50	50	50	50	
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	-	Aircraft:		
50		Usage		(Vehicles/Ot	her)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:		
Combat Loads:	:	:		:		BY2 Replace		TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug			<u>:                                    </u>	
Pipeline:	PY-2:	PY-2:		PY-2:			BAI			
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:										

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997		
P-1 Line Item Nomen	clature		Admin Lead	time (after Oc	et 1): xx mont	ths	Prod Leadtin	ne	
(Include DODIC for A	Ammunition Items)								
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF058 Arctic (	Oil Recovery Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			1			1			
Unit Cost			350			370			
Total Cost			350	)		370	)		
Asset Dynamics									
Beginning Asset Posit	ion			1	. ] 1	. ] 1	2	2	2
Deliveries from all pri	or year funding								
Deliveries from FY 97	7 funding		1						
Deliveries from FY 98	3 funding								
Deliveries from FY 99	9 funding								
Deliveries from subse	quent years' funding					1			
Other Gains									
Combat Losses/Usage									
Training Losses/Usage	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements	s/Attritions/etc.								
End of Year Asset Po	osition	0	1	1	. ] 1	. 2	2	2	2
Inventory Objective of	r Current Authorized Allowance	6	6	6	5 6	6	6	6	6
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Eli	gible for	Aircraft:	
6		Usage		(Vehicles/Ot	ther)	BY1 Replace		TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Eli		PAA:	
Combat Loads:	:	:		:		BY2 Replace	ement:	TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:
Pipeline:	PY-2:	PY-2:		PY-2:				BAI	
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:	
TOTAL:								Storage:	
REMARKS:									

Exhibit P-20, Require	ments Study	Approp (Trea	as) Code/CC/	BA/BSA/Item	Control No.		Date: Febua	ry 1997	
P-1 Line Item Nomen	clature		Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne	
(Include DODIC for A	Ammunition Items)								
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF059 Boom N	Mooring Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary			13	16	16		4	3	
Unit Cost			9.76	10.3	10.5		11	11	
Total Cost			127	165	168		44	33	
<b>Asset Dynamics</b>									
Beginning Asset Posit	tion	9	9	22	38	54	54	58	61
Deliveries from all pri	or year funding								
Deliveries from FY 97	7 funding		13						
Deliveries from FY 98	8 funding			16					
Deliveries from FY 99	9 funding				16				
Deliveries from subse	quent years' funding						4 3		
Other Gains									
Combat Losses/Usage									
Training Losses/Usag	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements	s/Attritions/etc.								
End of Year Asset Po	osition	9	22	38	54	54	58	61	61
Inventory Objective o	r Current Authorized Allowance	64	64	64	64	64	64	64	64
Inventory Objective 64	Actual Training Expenditures	Other than T Usage	raining	Disposals (Vehicles/Ot	her)	Vehicles Elig BY1 Replace		Aircraft: TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru	•	Vehicles Elig		PAA:	
Combat Loads:	:	:		:		BY2 Replace		TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug			:
Pipeline:	PY-2:	PY-2:		PY-2:			BAI		
Other:	PY-3:	PY-3:		PY-3:			Inactive Inv:		
TOTAL:								Storage:	
REMARKS:	<del></del>								

Exhibit P-20, Require	ments Study	Approp (Tre	eas) Code/CC	/BA/BSA/Iter	n Control No.		Date: Febuary 1997			
P-1 Line Item Nomeno	_		Admin Lea	dtime (after O	ct 1): xx mon	ths	Prod Leadti	me		
(Include DODIC for A	Ammunition Items)	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF060 Hot Taj	o Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary	<i>.</i>				1					
Unit Cost				21	0					
Total Cost				21	0					
Asset Dynamics										
Beginning Asset Posit	cion	4	4	4	4	5 5	5	5 5		
Deliveries from all pri	or year funding									
Deliveries from FY 97										
Deliveries from FY 98	3 funding				1					
Deliveries from FY 99	funding									
Deliveries from subse	quent years' funding									
Other Gains										
Combat Losses/Usage	:									
Training Losses/Usage	e									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements	s/Attritions/etc.									
End of Year Asset Po	osition	4	4	4	5	5 5	5	5 5		
Inventory Objective or	r Current Authorized Allowance	7	7	7	7	7 7	7	7 7	1	
								+		
Inventory Objective	Actual Training Expenditures	Other than 7	Training	Disposals	-	Vehicles Eli	gible for	Aircraft:	- <del>-</del>	
7		Usage	ū	(Vehicles/C	ther)	BY1 Replac	ement:	TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Eli		PAA:		
Combat Loads:	:	:		:		BY2 Replac	ement:	TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	s:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv		
TOTAL:								Storage:		
REMARKS:										

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: February 1997		
P-1 Line Item Nomen	clature		Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne	
(Include DODIC for A	Ammunition Items)								
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF061 Viscous	Oil Transfer Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				2	,		1	2	
Unit Cost				100			107	110	
Total Cost				200	)		107	220	
<b>Asset Dynamics</b>									
Beginning Asset Posit	tion	9	9	9	11	11	11	12	14
Deliveries from all pri	or year funding								
Deliveries from FY 97	7 funding								
Deliveries from FY 98	8 funding			2					
Deliveries from FY 99	9 funding								
Deliveries from subse	quent years' funding						1 2		
Other Gains									
Combat Losses/Usage									
Training Losses/Usag	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements	s/Attritions/etc.								
End of Year Asset Po	osition	9	9	11	11	11	12	14	14
Inventory Objective o	r Current Authorized Allowance	28	28	28	28	28	28	28	28
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig		Aircraft:	
28		Usage		(Vehicles/Ot	her)	BY1 Replace		TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:	
Combat Loads:	:	:		:		BY2 Replace		TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug			:
Pipeline:	PY-2:	PY-2:		PY-2:			BAI		
Other:	PY-3:	PY-3:		PY-3:			Inactive Inv:		
TOTAL:								Storage:	
REMARKS:									

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Item	Control No.		Date: Febru	ary 1997	
P-1 Line Item Nomen	clature	I	Admin Lead	time (after Oc	t 1): xx mont	hs	Prod Leadtin	ne	
(Include DODIC for A	Ammunition Items)								
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
HF062 Sub 6"	Hyd Pump Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary				3	1				
Unit Cost				70	72				
Total Cost				210	72				
<b>Asset Dynamics</b>									
Beginning Asset Posit	tion	21	21	21	24	25	25	25	25
Deliveries from all pri	or year funding								
Deliveries from FY 97	7 funding								
Deliveries from FY 98	3 funding			3					
Deliveries from FY 99	9 funding				1				
Deliveries from subse	quent years' funding								
Other Gains									
Combat Losses/Usage									
Training Losses/Usage	e								
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements									
<b>End of Year Asset Po</b>	osition	21	21	24	25				
Inventory Objective or	r Current Authorized Allowance	33	33	33	33	33	33	33	33
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	-	Aircraft:	
33		Usage		(Vehicles/Ot	her)	BY1 Replace		TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:	
Combat Loads:	:	:		<u> </u>		BY2 Replace		TAI	
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug			:
Pipeline:	PY-2:	PY-2:		PY-2:			BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:	
TOTAL:								Storage:	
REMARKS:		P. 1. 01							

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Iter	n Control No.		Date: February 1997			
P-1 Line Item Nomeno	clature		Admin Lead	Itime (after O	ct 1): xx mont	hs	Prod Leadtin	ne		
(Include DODIC for A	- Ammunition Items)			`	,					
,	,	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF063 VOSS S	skim Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary					1			1		
Unit Cost					603			609		
Total Cost					603			609		
Asset Dynamics										
Beginning Asset Posit		6	Ć	5	6	7	7	7	8	
Deliveries from all pri	or year funding									
Deliveries from FY 97	funding									
Deliveries from FY 98	funding Stunding									
Deliveries from FY 99	funding				1					
Deliveries from subsec	quent years' funding						1			
Other Gains										
Combat Losses/Usage										
Training Losses/Usage										
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements										
End of Year Asset Po	sition	6	Ć	5	6 7	7	7	8	8	
Inventory Objective or	Current Authorized Allowance	9	Ģ	9	9 9	9	9	9	9	
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	-	Aircraft:		
9		Usage		(Vehicles/O	ther)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig	-	PAA:		
Combat Loads:	:	:		:		BY2 Replace		TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:										

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**Exhibit P-20 Requirements Study** 

Exhibit P-20, Require	ments Study	Approp (Tre	as) Code/CC/	BA/BSA/Iten	n Control No.		Date: February 1997			
P-1 Line Item Nomen (Include DODIC for A	_		Admin Lead	ltime (after O	ct 1): xx mont	hs	Prod Leadtin	ne		
(Include DODIC for A	Ammunition Items)	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
  HF064 Module	r Barge Systems	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
	ir barge Systems	F 1 1990	F1 1997	F I 1998	F I 1999	F I 2000	F I 2001	F 1 2002	F1 2003	
Buy Summary Unit Cost						591	612			
Total Cost						591	612	•		
						391	012			
Asset Dynamics	i						1	2	2	
Beginning Asset Posit							1	1 2		
Deliveries from all pri Deliveries from FY 97										
Deliveries from FY 98				+						
Deliveries from FY 98										
Deliveries from FY 99						1	1			
Other Gains	quent years runding					1	1			
Combat Losses/Usage										
Training Losses/Usage										
Test Losses/Usage	e									
Other Losses/Usage Disposals/Retirements	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			+						
End of Year Asset Po		0			0 0	1	2	2	2	
		0	9	1	$\begin{bmatrix} 0 & 0 \\ 4 & 4 \end{bmatrix}$	4	2		2	
Inventory Objective of	r Current Authorized Allowance	4		4	4 4	4	4	4	4	
	_									
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	_	Aircraft:		
4		Usage		(Vehicles/O	ther)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig	_	PAA:		
Combat Loads:	:	:		<u>:</u>		BY2 Replace	ement:	TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:	_									

Exhibit P-20, Require	ments Study	Approp (Treas) Code/CC/BA/BSA/Item Control No.				Date: February 1997				
P-1 Line Item Nomen	clature		Admin Lead	time (after Oc	ct 1): xx mont	hs	Prod Leadtime			
(Include DODIC for A	Ammunition Items)									
		PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	
HF065 Boardin	ng Kits	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
Buy Summary						1	2			
Unit Cost						40	42			
Total Cost						40	84			
Asset Dynamics										
Beginning Asset Posit	tion	3	3	3	3	3	4	6	6	
Deliveries from all pri	ior year funding									
Deliveries from FY 97	7 funding									
Deliveries from FY 98	8 funding									
Deliveries from FY 99	9 funding									
Deliveries from subse	quent years' funding					1	2			
Other Gains										
Combat Losses/Usage										
Training Losses/Usag	e									
Test Losses/Usage										
Other Losses/Usage										
Disposals/Retirements	s/Attritions/etc.									
End of Year Asset Po	osition	3	3	3	3	4	. 6	6	6	
Inventory Objective o	r Current Authorized Allowance	10	10	10	10	10	10	10	10	
Inventory Objective	Actual Training Expenditures	Other than T	raining	Disposals		Vehicles Elig	•	Aircraft:		
10		Usage		(Vehicles/O	ther)	BY1 Replace		TOAI:		
Assets Rqd for	PY thru	PY thru		PY thru		Vehicles Elig		PAA:		
Combat Loads:	:	:		:		BY2 Replace	ement:	TAI		
WRM Rqmt:	PY-1:	PY-1:		PY-1:		Vehicle Aug	ment:	Attrition Res	:	
Pipeline:	PY-2:	PY-2:		PY-2:				BAI		
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv:		
TOTAL:								Storage:		
REMARKS:										

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**Exhibit P-20 Requirements Study** 

# DEPARTMENT OF THE NAVY SUMMARY OF FUNDS BUDGETED FOR ENVIRONMENTAL PROJECTS FY96/97

Environmental Program	FY96 <u>Actual</u>	FY97 <u>Estimate</u>	FY98 <u>Estimate</u>	FY99 <u>Estimate</u>	CHANGE FY97/FY98	CHANGE FY98/FY99
Environmental Cleanup Appropriation Media Category						
Environmental Compliance	103,166	127,492	156,775	218,621	30,383	61,846
Environmental Conservation						
Pollution Prevention						
Environmental Technology						
Base Realignment and Closure						
Environmental Programs Total	103,166	127,492	156,775	218,621	30,383	61,846

FY 1997 To FY 1998 Change Justification: This is due to the fact that different systems are being procured and unit cost per system varies depending on the system.

FY97 represents the peak year for procuring and installing Plastics Waste Processors aboard ship to meet the DEC 98 congressional deadline. Much of the FY98 increase in funding is due to initial starts for the Pulper/Shredder and the R-114 CFC Programs. FY98 also attempts to resolve the massive FY97 R12 AC/Reefer funding cuts.

FY 1998 To FY 1999 Change Justification: This is due to the fact that different systems are being procured and unit cost per system varies depending on the system.

Eighty percent of the FY99 funding is for execution of the Pulper/Shredder and R114 CFC programs.

#### UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET EXHIBIT P-40						DATE:	FEBRUARY 199	7
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLAT	URE/SUBHEAD		
OTHER PROCUREMENT, NAVY/BA-1 SUBMARIN						SILENCING		
SHIP SUPPORT EQUIPMENT				EQUIPMENT	/81HG	BLI # 0940		
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
QUANTITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COST (In Millions)	\$5.0	\$4.5	<b>\$4.3</b>	\$3.5	\$3.7	\$3.8	\$3.9	\$4.0

This program is for the procurement of special material required to implement the militarily high priority Submarine Silencing Program for operating nuclear submarines. The overall objectives and detail requirements for this program were established and defined in the CNO Specific Operational Requirements (SOR) 46-28 and NAVSEAINST C9073.2B. Only one program is in place to procure hardware system for the purpose of measuring/monitoring, assessing, and improving the detection capability/reducing the detectability of our submarines.

#### <u>LABORATORY/FACILITIES UPGRADES/REFURBISHMENT (HG050, HG05</u>1)

Consists of replacing or refurbishing broken, old obsolete acquisition and analysis hardware and software prior to equipment failure and subsequently jeopardizing ship's safety (e.g. ranging equipment) or the execution of acoustic trials and completion of trials program objectives outlined in CNO Specific Operational Requirements 46-28 (assessment of ship's acoustic posture, etc.) and NAVSEAINST C9073.2B (Acoustics Surveys Policy). These planned refurbishments and replacements are especially critical in order to maintain the technological advancements recently made in the area of acoustic data acquisition under the Acoustic Measurement Facilities Improvement Program (AMFIP) East and West coasts (USNS HAYES and SEAFAC, respectively). Examples of these items include: hydrophone arrays, towed arrays, ranging and tracking systems, on-board array electronics, noise sources, shore power cables and data fiberoptic cables, data analysis systems, workstations, data storage and retrieval, communications systems, analyzers, tape recorders, accelerometers, monitors, etc. These equipments are utilized on the test vessel, the listening platform, and at the laboratories. [In FY97 and beyond, East and West Coast requirements are merged into one funding line.]

#### FMP INSTALLATIONS (HG51N)

Booted GRP Bow Sonar Domes are a requirement essential to the mission of the ship. Submarines without this equipment are seriously degraded with regards to sonar detection capability. Ships without this capability are at greater risk to the safety of the submarine and its crew. Submarine GRP Bow Dome Boots will be removed from inactivated submarines and installed on other operating ships.

P-1 SHOPPING LIST CLASSIFICATION: EXHIBIT P-40

DD FORM 2454, JUN 86

## UNCLASSIFIED

	WEAPON SYSTEM EXHID	M COST A BIT P-5	NALY	SIS					DATI FEBR	E: UARY 1997
APPROPRIATION/BU OTHER PRO	UDGET ACTIVITY CUREMENT, NAVY/BA-1					P-1 ITEM NOMENCLA SUBMARINI 81HG			UIPN	MENT/
					TOTA	L COST IN THOUS.	ANDS (	OF DOLLARS		
COST CODE	ELEMENT OF COST	IDENT CODE	QTY	FY96 TOTAL COST	QTY	FY97 TOTAL COST	QTY	FY98 TOTAL COST	QTY	FY99 TOTAL COST
			QII	TOTAL COST	QII	TOTAL COST	QII	TOTAL COST	QII	TOTAL COST
HG050	FACILITIES/LAB UPGRADES/REFURB *	A		\$2,177		\$3,295		\$4,285		\$3,504
HG051	FACILITIES/LAB UPGRADES/REFURB - WEST *	A		1,440		0		0		0
	MATERIAL TOTAL			\$3,617		\$3,295		\$4,285		\$3,504
HG5IN	FMP Installation			1,432		1,159		0		0
	GRAND TOTAL			\$5,049		\$4,454		\$4,285		\$3,504
* In FY97 and beyond	, East and West Coast requirements (HG050/051) are merged into one funding line (HG0.	50).		P-1 SHOPPING LIST			CLASSI	IFICATION:		EXHIBIT P-5
DD FORM 2446, JUN 86			ITI	EM NO. PAGE NO	).	†	OLAUGI	ii ioarioit.		LAHBII F-3

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INDIVIDUAL MODIFICATION DATE: FEBRUARY 1997 Submarine Silencing Equipment/81HG MODIFICATION TITLE: INSTALL SUBMARINE GRP BC Feb-97 MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION: REPLACE BOOTED STEEL DOMES WITH BOOTED GRP DOME/SONAR PERFORMANCE ENHANCMENT DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TO TO FY96 COMP COMP TOTAL TOTAL OTY FY99 OTY FY00 OTY FY01 OTY FY02 OTY FY03 OTY & PRIOR OTY FY97 OTY FY98 OTY COST OTY COST FINANCIAL PLAN (IN MILLIONS) RDT&E PROCUREMENT 10 1.190 0 0.000 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 10 1.190 QUANTII 10 0.000 INSTALLATION KITS 0 0.000 INSTALLATION KITS NONRECURRING 0 0.000 EQUIPMENT 10 1.190 10 1.190 EQUIPMENT NONRECURRING 0 0.000 ENGINEERING CHANGE ORDERS 0.000 DATA 0.000 TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0 0.000 OTHER 0.000 INTERIM CONTRACTOR SUPPORT 0 0.000 INSTALLATION OF HARDWARE FY96 EQUIPMENT AND PRIOR 10 2.160 10 2.160 FY97 EQUIPMENT 0 0.000 FY98 EQUIPMENT 0.000 0 FY99 EQUIPMENT 0 0.000 FY00 EQUIPMENT 0.000 FY01 EQUIPMENT 0 0.000 FY02 EQUIPMENT 0.000 FY03 EQUIPMENT TO COMPLETE TOTAL INSTALLATION COST 2.160 0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 10 2.160 TOTAL PROCUREMENT COST 1.190 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0 1 190 3.350 TOTAL COST 3.350 0.000 0.000 0.000 0.000 0.000 0.000 0.000 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 18 MONTHS PRODUCTION LEADTIME: 2 MONTHS CONTRACT DATE: 06/94 PRIOR YEAR: CURRENT YEAR: 11/94 BUDGET YEAR: BUDGET YEAR 2: PRODUCTION DELIVER DATE: 08/94 PRIOR YEAR: CURRENT YEAR: 05/95 BUDGET YEAR BUDGET YEAR 2: INSTALLATION SCHEDULE: INPUT =====> FY96 & PY FY97 FY98 FY00 FY01 FY02 FY03 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 TOTAL FY96 & PRIOR 0.0.0.0 FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY96 & PY OUTPUT ====> FY97 FY98 FY99 FY00 FY01 FY02 FY03 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 TOTAL FY96 & PRIOR 0.0.0.0 0.0.0.0 0.0.0.0 FY97 FY98 FY99 FY00 FY01 FY02 FY03 CLASSIFICATION: UNCLASSIFIED 5 Domes previously installed prior to FY94 FY96 Install cost \$1.060 all equipment EXHIBIT P-3A

was procurred prior to FY96. 1 Dome installed in 4th quarter FY94 1 Dome installed in 4th quarter FY95

P-1 SHOPPING LIST PAGE NO. ITEM NO. 15

P3A INDIVIDUAL MODIFICATION DATE: FEBRUARY 1997 Submarine Silencing Equipment/81HG MODIFICATION TITLE: INSTALL SUBMARINE BOOTED GRP BOW DOME (HG040) MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION: REPLACE BOOTED STEEL DOMES WITH BOOTED GRP DOME/SONAR PERFORMANCE ENHANCMENT DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TO TO COMP COMP TOTAL TOTAL & PRIOR QTY FY98 QTY FY99 QTY FY00 QTY FY01 QTY FY02 QTY FY03 COST QTY COST FINANCIAL PLAN (IN MILLIONS) RDT&EPROCUREMENT 7.035 \*NOTE 0.000 0 0.000 0 0.000 0 0.000 7.035 2 0 0.000 0 0 0.000 6 QUANTITY 0.000 INSTALLATION KITS 0 0.000 INSTALLATION KITS NONRECURRING 0.000 EQUIPMENT 7.035 7.035 EQUIPMENT NONRECURRING 0.000 ENGINEERING CHANGE ORDERS 0.000 DATA 0 0.000 TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0 0.000 0 0.000 INTERIM CONTRACTOR SUPPORT 0.000 INSTALLATION OF HARDWARE FY96 EQUIPMENT AND PRIOR 2 1.159 1 979 0.820 FY97 EQUIPMENT 0.000 FY98 EQUIPMENT 0 0.000 FY99 EQUIPMENT 0 0.000 FY00 EQUIPMENT 0 0.000 FY01 EQUIPMENT 0 0.000 FY02 EQUIPMENT 0.000 FY03 EQUIPMENT TO COMPLETE TOTAL INSTALLATION COST 0.820 1.159 0.000 0.000 0.000 0.000 0 0.000 0.000 1.979 TOTAL PROCUREMENT COST 7.035 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0 7.035 TOTAL COST 1.159 0.000 0.000 0.000 0.000 0.000 0.000 9.014 7.855 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 18 MONTHS PRODUCTION LEADTIME: 2 MONTHS CONTRACT DATE: PRIOR YEAR: CURRENT YEAR: 11/94 BUDGET YEAR: BUDGET YEAR 2: PRODUCTION DELIVER DATE: PRIOR YEAR: CURRENT YEAR: 05/95 BUDGET YEAR: BUDGET YEAR 2: INSTALLATION SCHEDULE: INPUT =====> FY96 & PY FY97 FY98 FY99 FY00 FY01 FY02 FY03 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 TOTAL 3,1,0,0 FY96 & PRIOR 0.1.1.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 FY97 FY98 FY99 FY00 FY01 FY02 FY03 OUTPUT ====> FY96 & PY FY97 FY98 FY99 FY00 FY01 FY02 FY03 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 TOTAL FY96 & PRIOR 2,0,1,1 0,0,2,0 0,0,0,0 0,0,0,0 0,0,0,0 0,0,0,0 0,0,0,0 0,0,0,0 0,0,0,0 FY97 FY98 FY99 FY00 FY01 FY02 FY03 P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED EXHIBIT P-3A

Install cost for FY96 is \$.372

2 Domes installed prior to FY96 \*NOTE: 2 Domes are being installed from decommisioned ships ITEM NO. PAGE NO. 15

P-40							DATE: FEBRUARY	1997
OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMEN SUBMARINE BATTER					RIES (81H	M) (0945)		
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$7.2	\$9.3	\$9.0	\$8.9	\$13.7	\$13.2	\$10.2	\$14.3

#### **GUPPY 1 MOD E - HM002**

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These replacement batteries for 688 class are used as the secondary underwater power sources. The MOD E battery provides the increased energy needed to extend reactor troubleshooting and recovery time for this class of submarines. That is, MOD E will support vital ship loads for nearly twice as long as the MOD C (twice as long refers to the energy delivered during a discharge and not service life) and thereby, extends operational capabilities. The replacement schedule for these batteries is predicted using continually updated usage data from each ship. Previous experience and laboratory tests indicate that MOD E batteries will need replacement after 66 months of service.

#### **GUPPY 1 MOD C - HM001**

Batteries are the primary source of submarine emergency power and are "Mission Critical". They are replacement batteries for 637/640 class submarines whose installed batteries have reached the end of their service life. Thirty-five years of experience with this battery design has established a predicable service life of 72 months. Due to the electrochemical degradation associated with batteries, service life extensions are not possible without significant reduction of system capability. Batteries must be replaced as scheduled in order to maintain fleet readiness.

#### PROCUREMENT/INSTALLATION ON THE FOLLOWING HULLS:

FY 98

SSN 686 at Portsmouth in AUG 98.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

CLASSIFICATION: UNCLASSIFIED

1

	BUDGET ITE		DATE:		
	P-40				FFDD114 537 4005
ADDDODDIATIO	NI/DUDOET ACTIVITY			D 4 ITEM NOMENOLA	FEBRUARY 1997
APPROPRIATIO	N/BUDGET ACTIVITY			P-1 ITEM NOMENCLA	IURE
OTHER PROCU	REMENT NAVY BA 1: S	SUBMARINE BATTERIES (81HM) (094			
			FY 98		
			(HM001)	INSTALLING AGENT	DATE
			SSN 636	Portsmouth	Aug-98
FY 96					
SHIP (HM002)	INSTALLING AGENT	DATE	SHIP (HM002)	INSTALLING AGENT	DATE
SSN 766	Pearl Harbor	Nov-96	SSN 768	Portsmouth	Jul-98
SSN 698	Pearl Harbor	Dec-96	SSN 705	Portsmouth	Aug-98
SSN 697	Pearl Harbor	Jan-97	SSN 753	Portsmouth	Aug-98
SSN 711	Pearl Harbor	Feb-97	SSN 755	Portsmouth	Nov-98
SSN 723	Portsmouth	Feb-97	SSN 769	Portsmouth	Nov-98
SSN 724	Pearl Harbor	Mar-97	SSN 716	Puget Sound	Feb-99
SSN 767	Portsmouth	Apr-97	SSN 706	Portsmouth	Feb-99
			SSN 683	Puget Sound	Apr-99
FY 97					
SHIP (HM002)	INSTALLATING AGEN	TDATE	FY 99		
SSN 763	Pearl Harbor	May-97	SHIP (HM002)	INSTALLING AGENT	DATE
SSN 750	Portsmouth	May-97			
SSN 701	Puget Sound	May-97	SSN 707	Puget Sound	May-99
SSN 770	Pearl Harbor	Sep-97	SSN 714	Portsmouth	Aug-99
SSN 751	Portsmouth	Sep-97	SSN 690	Portsmouth	Aug-99
SSN 762	Pearl Harbor	Nov-97	SSN 772	Pearl Harbor	Aug-99
SSN 713	Puget Sound	Nov-97	SSN 758	Puget Sound	Nov-99
SSN 699	Portsmouth	Nov-97	SSN 756	Portsmouth	Nov-99
SSN 771	Pearl Harbor	Dec-97	SSN 773	Pearl Harbor	Jan-00
SSN 754	Puget Sound	Jun-98			
		P-1 SHOE	PPING LIST	CLASSIFIC	CATION:
		1 -1 31101	1 1140 E101	CLASSIFIC	

ITEM NO. PAGE NO.

BUDGET ITEM JUSTIFICATION SHEET
P-40A

APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT NAVY BA 1:
SHIPS SUPPORT EQUIPMENT

DSRV1 & 2 HM003

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. Silver Zinc Batteries provide the only power source for DSRV 1&2 rescue vehicles, which provide the Navy with a capability for personnel rescue from a disabled submarine. A complete new battery is installed when an operating set reaches the end of its estimated 15 month life cycle

Procurement Installation on the following Hulls

SHIP (HM003) FY 96

DSRV-1 Deep Submergence Unit (DSU) 3 sets/yr at 3-4 months intervals
DSRV-2 Deep Submergence Unit (DSU) 3 sets/yr at 3-4 months intervals

SHIP (HM003) FY 97

DSRV-1 DSU 3 sets/yr at 3-4 months intervals
DSRV-2 DSU 3 sets/yr at 3-4 months intervals
3 sets/yr at 3-4 months intervals

SHIP (HM003) FY 98

DSRV-1 Deep Submergence Unit (DSU) 3 sets/yr at 3-4 months intervals
DSRV-2 Deep Submergence Unit (DSU) 3 sets/yr at 3-4 months intervals

SHIP (HM003) FY 99

DSRV-1 DSU 3 sets/yr at 3-4 months intervals
DSRV-2 DSU 3 sets/yr at 3-4 months intervals

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. PAGE NO. 16 3

	P-40A	STIFICATION SHEET				DATE:
						FEBRUARY 1997
APPROPRIATION/BUDGET ACTIV	VITY			P-1 ITEM NOMENCLATUR	E	
OTHER PROCUREMENT NAVY B SHIPS SUPPORT EQUIPMENT	A 1:			SUBMARINE BATTERIES	(81HM) (0945)	
CRITICAL equipment. Deep Sub- underwater search and recovery to locate, recover or deploy milita	able items which require replacemer mergence Vehicles are designated a capabilities to 10,000 and 20,000 fee ary scientific interest items. Silver Z depths. A complete new battery se	s manned, non-combatant submers t respectively. They possess uniquinc inc batteries are required and effici	sibles, which provide the Navy w he capabilities and characteristics ently support Deep Submergenc	ith s e		
Procurement Installation on the f	following Hulls					
Ship (HM004) FY 97						
DSV-3	DSU	Mar 97, 98	1 set			
DSV-4	DSU	Aug 97, 98	1 set			
Ship (HM004) FY 98						
DSV-3	DSU	Mar 99, 00	1 set			
DSV-4	DSU	Aug 90, 00	1 set			
Ship (HM004) FY 99						
DSV-3	DSU	Mar 00, 01	1 set			
DSV-4	DSU	Aug 00, 01	1 set			
		B 1 SHODDING LIS	т			CI ASSIEICAT

ITEM NO. PAGE NO.

BUDG	ET ITEM JUSTIFICATION SHEET	DATE:
P-40A		
		FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE

OTHER PROCUREMENT NAVY BA 1: SUBMARINE BATTERIES (81HM) (0945)

SHIPS SUPPORT EQUIPMENT

NR-1 HM005

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. The NR-1 Silver Zinc battery is a secondary underwater power source. Its function during a military or oceanographic research mission is an emergency source of power in the event of nuclear reactor shut down. A new battery is installed at the end of its 15 month life cycle.

Procurement Installation on the following Hull.

Ship (HM005) - NR-1

FY 97	Portsmouth	Apr-98
FY 98	Portsmouth	Jul-99
FY 99	Portsmouth	Oct-00
FY 00	Portsmouth	Jan-02

#### SILVER ZINC EMERGENCY BATTERIES HM006

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment and are utilized aboard the DSV 3 & 4 and the DSRV 1 & 2 deep submergence vehicles to activate critical components, E.G. release valves and devices, as well as emergency back-up power for the life support systems. Batteries can be installed by ships Force after a 12 month life cycle.

#### GFE (SILVER)

Silver is required for all DSRV, DSV, NR-1 emergency batteries, and is requisitioned from the governments reclaiming facility.

**CLASSIFICATION** 

BUDGET ITEM JUSTIFICATION SHEET P-40A		DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT	SUBMARINE BATTERIES (81HM) (0945)	

#### **TRIDENT 1 HM008**

Ship (HM008)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These are replacement batteries for all Trident class ships. Experience gained with testing at Mare Island Naval Shipyard and on board ship has shown that battery life is determined by total months in service and not total equivalent cycles. Renewal criteria for Trident is based on extensive laboratory/tests and evaluation of available operational data, resulting in an expected wet life of 72 months.

**Procurement Installation on the Following Hulls** 

omp (miloco)		
FY 96		
SSBN 739	Puget Sound	MAY 97
SSBN 728	Puget Sound	JUL 97
SSNB 740	Portsmouth	MAY 98
FY 97		
SSBN 734	Portsmouth	May 98
SSBN 735	Portsmouth	May 99
FY 98		
SSBN 741	Portsmouth	May 99
SSBN 730	Puget Sound	Aug 99
FY 99		
SSBN 729	Puget Sound	Oct 99
SSBN 742	Kings Bay	May 00

# CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICA P-40A	ATION SHEET	DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCL	ÂTURE
OTHER PROCUREMENT NAVY BA1:		
SHIPS SUPPORT EQUIPMEN	SUBMARINE BATTE	RIES (81HM) (0945)

### **PRODUCTION ENGINEERING HM830**

Technical support is required from Naval Surface Warfare Center (NSWC Crane FY 96). NSWC Crane receives sample

cells of lead-acid batteries (all types) to perform continuous life testing until complete cell failure. The procedure is beneficial to the Navy since a cause of premature failure may be detected and corrected before the complete batteries are installed. This test program is also used to develop and verify improved operating and maintenance procedures, and application of NSSN/SEAWOLF battery technologies to other designs in order to extend service life and reduce the number of battery changeouts (reduced life cycle costs) over the life of the ship.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

**CLASSIFICATION:** 

**UNCLASSIFIED** 

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CLASSIFICATION: UNCLASSIFIED

Weapons Sys Exhibit (P-5)	stem Cost Analysis	PROGRAM COS	ST BREAKDOWN						DATE:		
` '		T ROOKAIII OO	JI BREARDOWN							FEBRUARY 1997	
APPROPRIA	ATION/BUDGET ACTIVITY			P-1 ITEM NOMEN	NCLATURE/SUB	SHEAD					
RPROCUREMEN	NT NAVY BA 1: SHIPS SUPPORT EQUIPMENT		•		SUBMARINE BA	ATTERIES (81HM) (0	945)				
					TOTAL COST IN	THOUSANDS OF D	OLLARS				
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999	
CODE		CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
	OP-N87										
HM001	GUPPY 1 MOD C (126 CELL)	Α					1	407			
HM002	GUPPY 1 MOD E (126 CELL) SSN & SSBN'S	А	7	4,219	10	6,160	8	5,039	7	4,507	
HM003 HM003A	DSRV 1-2 (GFE) SILVER	A	2 SETS	502 275	2 SETS	513 281	3 SETS	787 287	3 SETS	804 294	
HM004 HM004A	DSV 3-4 (GFE) SILVER	A			3 SETS	176 167	2 SETS	199 174	2 SETS	207 178	
HM005 HM005A	NR-1 (GFE) SILVER	A			1	208 68	1	217 71	1	222 73	
HM006 HM006A	EMERGENCY BATTERIES (GFE) SILVER	A			8	63 8	8	66 9	8	67 9	
HM008	TRIDENT 1 TYPE (126 CELL)	Α	3	1,880	2	1,281	2	1,310	2	1,339	
HM830	PRODUCTION ENGINEERING			354		390		477		1,164	
	TOTAL			7,230		9,315		9,043		8,864	
		P-1 SHOPPING	LIST				Evhibit P.5	Weapons System	Cost Analysis		

P-1 SHOPPING LIST ITEM NO.

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PAGE NO.

Exhibit P-5 Weapons System Cost Analysis CLASSIFICATION:

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UNCLASSIFIED CLASSIFICATION:

			BODGET FRO	CUREMENT HIST	OK! AN	D I LAMMINO	EXHIBIT (I -5A	,	DATE FEBRUARY 1997		
PPROPRI	ATION/BUDGET ACT	IVITY			P-1 ITEM	I NOMENCLA	TURE		SUBHEAD		
	OTHER PROCUREN	MENT NAVY BA 1: SH	IPS SUPPORT	Γ EQUIPMENT	SUBMAI	RINE BATTER	RIES		81HM (0945		
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABI
HM001	GUPPY 1 MOD C FY 1998	UNKNOWN	C/FP	NAVSEA	Mar-98	Jan-99	1	407,000	YES	N/A	
HM002	GUPPY 1 MOD E FY 1996 FY 1997 FY 1998 FY 1999	GNB GNB GNB GNB LOMBARD, IL	SS/OPT SS/NP SS/OPT SS/NP	NAVSEA NAVSEA NAVSEA NAVSEA	Feb-96 Feb-97 Feb-98 Feb-99	Jul-96 Jul-97 Jul-98 Jul-99	7 10 8 7	602,714 616,000 629,875 643,857	YES YES YES YES	NO NO NO	
HM003	DSRV 1-2*										
	FY 1996	YARDNEY TECH, PAWCATUCK, CT	C/FP/OPT	NAVSEA	Jan-96	Sep-96	2	251,000	YES		
HM003A	FY 1997 FY 1998 FY 1999 FY 1996 FY 1997 FY 1998 FY 1999	UNKNOWN UNKNOWN UNKNOWN DISC PHILA, PA DISC PHILA PA DISC PHILA, PA DISC PHILA, PA	C/FP/OPT C/FP/OPT C/FP/OPT MILSTRIP MILSTRIP MILSTRIP MILSTRIP	NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA	Feb-97 Jan-98 Jan-99 Feb-96 Feb-97 Jan-98 Jan-99	Oct-97 Jan-99 Jan-00 Feb-97 Feb-98 Jan-99 Jan-00	2 3 N/A N/A N/A N/A	256,500 262,333 268,000 275,000 281,000 287,000 294,000	YES YES YES N/A N/A	NO NO NO	
HM004	DSV 3- 4*										
HM004A	FY 1997 FY 1998 FY 1999 FY 1997 FY 1998 FY 1999	UNKNOWN UNKNOWN UNKNOWN DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA	C/FP C/FP/OPT C/FP MILSTRIP MILSTRIP MILSTRIP	NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA	Feb-97 Jan-98 Jan-99 Feb-97 Jan-98 Jan-99	Feb-98 Jan-99 Jan-00 Feb-98 Jan-99 Jan-00	3 2 2 N/A N/A N/A	58,666 99,500 103,500 167,000 174,000 178,000	YES YES YES N/A N/A N/A	NO NO NO N/A N/A	

MOD C AND MOD E BATTERIES ARE SOLE SOURCE TO GNB BECAUSE THEY ARE THE ONLY COMPANY THAT IS QUALIFIED. SECNAV MADE A DECISION THAT IT WAS NOT IN THE INTEREST OF THE NAVY TO QUALIFY ANOTHER SOURCE AND DIRECTED US TO PROCURE THESE BATTERIES FROM GNB.

DSRV 1 & 2 - ONE (1) SET CONSISTS OF (2) BATTERIES

#### **UNCLASSIFIED** CLASSIFICATION:

ON/BUDGET AC THER PROCURE LINE ITEM/ FISCAL YEAR R-1 FY 1997	TIVITY  MENT NAVY BA 1: SHII  CONTRACTOR  AND LOCATION	PS SUPPORT E CONTRACT METHOD	QUIPMENT	P-1 ITEM NOME SUBMARINE BA				SUBHEAD		
LINE ITEM/ FISCAL YEAR R-1	CONTRACTOR	CONTRACT	QUIPMENT	SUBMARINE BA						
LINE ITEM/ FISCAL YEAR R-1	CONTRACTOR	CONTRACT			ATTERIES	81HM (0945)				
		& TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABL
EV 1007										
FY 1998 FY 1999	UNKNOWN UNKNOWN UNKNOWN	C/FP C/FP/OPT C/FP/OPT	NAVSEA NAVSEA NAVSEA	Feb-97 Jan-98 Jan-99	Feb-98 Jan-99 Jan-00	1 1 1	208,000 217,000 222,000	YES YES YES	NO NO NO	
FY 1997 FY 1998 FY 1999	DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA	MILSTRIP MILSTRIP MILSTRIP	NAVSEA NAVSEA NAVSEA	Feb-97 Jan-98 Jan-99	Feb-98 Jan-99 Jan-00	N/A N/A N/A	68,000 71,000 73,000	N/A N/A N/A	N/A N/A N/A	
RIDENT 1 TYPE										
FY 1996 FY 1997 FY 1998 FY 1999	GNB, LOMBARD, IL GNB, LOMBARD, IL GNB, LOMBARD, IL GNB, LOMBARD, IL	C/FP C/FP/OPT C/FP/OPT C/FP/OPT	NAVSEA NAVSEA NAVSEA NAVSEA	Feb-96 Dec-96 Jan-98 Jan-99	Oct-96 Aug-97 Jul-98 Jul-99	3 2 2 2	626,666 640,500 655,000 669,500	YES YES YES YES	NO NO NO NO	
FY 1996 FY 1996 FY 1996 FY 1997 FY 1997 FY 1997 FY 1998 FY 1999	NSWC CRANE, IND. JJ McMULLEN NSWC CRANE, IND NFEC PT HEUENEM JJ McMULLEN NSWC CRANE, IND NSWC CRANE, IND NSWC CRANE, IND	WR LOE WR WR LOE WR WR	NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA	Feb-97 Mar-96 Jan-96 Dec-96 Mar-97 Oct-96 Oct-97 Oct-98	Mar-97 Apr-96 Sep-96 Jan-97 Jun-97 Sep-97 Sep-98 Sep-99	N/A N/A N/A N/A N/A N/A N/A	100,000 190,000 64,000 45,000 200,000 145,000 477,000 1,164,000	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	
EMERGENCY BATTERY FY 1997	UNKNOWN	C/FP	NAVSEA	Feb-97	Feb-98	8	7,875	YES	NO	
FY 1999 FY 1997 FY 1998 FY 1999	UNKNOWN UNKNOWN DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA	C/FP C/FP MILSTRIP MILSTRIP MILSTRIP	NAVSEA NAVSEA NAVSEA NAVSEA	Jan-99 Jan-97 Jan-98 Jan-99	Jan-99 Jan-00 Jan-98 Jan-99 Jan-00	8 N/A N/A N/A	8,375 8,000 9,000 9,000	YES YES N/A N/A N/A	NO N/A N/A N/A	
		ı	1	1	T.	1				1
	FY 1997 FY 1998 FY 1999  IDENT 1 TYPE FY 1996 FY 1996 FY 1996 FY 1996 FY 1996 FY 1997 FY 1997 FY 1997 FY 1997 FY 1999  EMERGENCY BATTERY FY 1998 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999	FY 1997 FY 1998 FY 1997 FY 1998 FY 1999 IDENT 1 TYPE FY 1996 FY 1999 FY 1996 FY 1996 FY 1996 FY 1997 FY 1997 FY 1997 FY 1997 FY 1997 FY 1997 FY 1997 FY 1998 EMERGENCY BATTERY FY 1998 FY 1997 FY 1997 FY 1998 FY 1998 FY 1997 FY 1998 FY 1999 FY 1997 FY 1999 FY 1997 FY 1998 FY 1998 FY 1997 FY 1998 FY 1998 FY 1998 FY 1998 FY 1998 FY 1998 FY 1997 FY 1998 FY 1998 FY 1998 FY 1997 FY 1998 FY 1998 FY 1998 FY 1998 FY 1998 FY 1998 DISC PHILA, PA	FY 1997 FY 1998 FY 1999 DISC PHILA, PA DISC PHILA, PA MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP MILSTRIP  GNB, LOMBARD, IL FY 1997 GNB, LOMBARD, IL FY 1998 GNB, LOMBARD, IL C/FP/OPT GNB, LOMBARD, IL C/FP/OPT C/FP/OPT  FY 1999 NSWC CRANE, IND WR MILSTRIP MILSTRI	FY 1997         DISC PHILA, PA         MILSTRIP         NAVSEA           FY 1999         GNB, LOMBARD, IL         C/FP         NAVSEA           FY 1997         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA           FY 1999         NSWC CRANE, IND.         WR         NAVSEA           FY 1996         NSWC CRANE, IND.         WR         NAVSEA           FY 1997         NSWC CRANE, IND.         WR         NAVSEA           FY 1997         NSWC CRANE, IND.         WR         NAVSEA           FY 1997         NSWC CRANE, IND.         WR         NAVSEA           FY 1998         NSWC CRANE, IND.         WR         NAVSEA           FY 1999         NSWC CRANE, IND.         WR         NAVSEA           FY 1997         UNKNOWN         C/FP         NAVSEA           FY 1998         UNKNOWN	FY 1997         DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA MILSTRIP         NAVSEA NAVSEA         Feb-97 Jan-98 Jan-99           IDENT 1 TYPE FY 1996 FY 1997         GNB, LOMBARD, IL GNB, LOMBARD, IL FY 1998 GNB, LOMBARD, IL GNB, LOMBARD, IL GNB, LOMBARD, IL C/FP/OPT         C/FP NAVSEA         Feb-96 Dec-96 Dec-96 Dec-96 Dec-96 Dec-96 Dec-96 Dec-96 Dec-96 Dec-96 NSWC CRANE, IND. JJ McMULLEN Dec-96 FY 1997         WR         NAVSEA NAVSEA         Feb-97 NAVSEA           FY 1996 FY 1997         NSWC CRANE, IND. JJ McMULLEN Dec-96 FY 1997         WR         NAVSEA NAVSEA         Feb-97 Mar-96 Mar-96           FY 1997         JS McMULLEN Dec-96 FY 1997         UNE NAVSEA Dec-96 NSWC CRANE, IND WR         NAVSEA NAVSEA         Dec-96 Mar-97           FY 1998         NSWC CRANE, IND WR         WR         NAVSEA NAVSEA         Dec-96 Oct-97           EMERGENCY BATTERY FY 1999         UNKNOWN UNKNOWN UNKNOWN UNKNOWN C/FP         VFP NAVSEA         Feb-97 NAVSEA           FY 1998         UNKNOWN UNKNOWN UNKNOWN C/FP         C/FP NAVSEA         Jan-98 Jan-99            FY 1998         DISC PHILA, PA MILSTRIP         MILSTRIP NAVSEA         Jan-97 Jan-98	FY 1997         DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA         MILSTRIP MILSTRIP MILSTRIP         NAVSEA NAVSEA         Feb-97 Jan-99         Feb-98 Jan-99           FY 1999         DISC PHILA, PA         MILSTRIP MILSTRIP         NAVSEA         Jan-99         Jan-99           IDENT 1 TYPE FY 1996         GNB, LOMBARD, IL FY 1997         C/FP         NAVSEA         Feb-96         Oct-96           FY 1997         GNB, LOMBARD, IL FY 1998         C/FP/OPT         NAVSEA         Dec-96         Aug-97           FY 1999         GNB, LOMBARD, IL C/FP/OPT         C/FP/OPT         NAVSEA         Jan-98         Jul-98           FY 1999         GNB, LOMBARD, IL C/FP/OPT         C/FP/OPT         NAVSEA         Jan-99         Jul-98           FY 1999         GNB, LOMBARD, IL C/FP/OPT         C/FP/OPT         NAVSEA         Jan-99         Jul-98           FY 1999         NSWC CRANE, IND NEWC CRANE, IND FY 1997         WR         NAVSEA         Mar-97         Mar-97           FY 1997         NSWC CRANE, IND NSWC CRANE, IND FY 1999         WR         NAVSEA         Dec-96         Sep-96           FY 1998         NSWC CRANE, IND WR         WR         NAVSEA         Oct-96         Sep-97           FY 1999         NSWC CRANE, IND WR         WR         NAVSEA	FY 1997         DISC PHILA, PA         MILSTRIP         NAVSEA         Feb-97         Feb-98         N/A           FY 1999         DISC PHILA, PA         MILSTRIP         NAVSEA         Jan-98         Jan-99         N/A           FY 1999         DISC PHILA, PA         MILSTRIP         NAVSEA         Jan-98         Jan-99         N/A           IDENT 1 TYPE         FY 1996         GNB, LOMBARD, IL         C/FP         NAVSEA         Feb-96         Oct-96         3           FY 1997         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Dec-96         Aug-97         2           FY 1998         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-98         Jul-98         2           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-99         Jul-98         2           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-99         Jul-98         2           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-99         Jul-99         2           FY 1996         NSWC CRANE, IND         WR         NAVSEA         Mar-97         Mr-97         N/A           FY 1997         NSWC CRANE, IND	FY 1997 FY 1998 FY 1999         DISC PHILA, PA DISC PHILA, PA DISC PHILA, PA         MILSTRIP MILSTRIP MILSTRIP         NAVSEA NAVSEA         Feb-97 Jan-98 Jan-99         Feb-98 Jan-99         N/A Jan-99         N/A N/A         71,000 71,000           IDENT 1 TYPE FY 1996 FY 1997         GNB, LOMBARD, IL GNB, LOMBARD, IL C/FP/OPT         C/FP NAVSEA         Feb-96 Dec-96 Dec-96         Oct-96 Aug-97         3 2 2 640,500         3 646,666         6 640,500           FY 1998 FY 1999         GNB, LOMBARD, IL C/FP/OPT         C/FP/OPT NAVSEA         Dec-96 Jan-98         Jul-98         2 2 669,500           FY 1999 GNB, LOMBARD, IL C/FP/OPT         C/FP/OPT NAVSEA         Jan-98         Jul-99         2 2 669,500           FY 1999 FY 1996         NSWC CRANE, IND. JJ MCMULLEN         WR         NAVSEA NAVSEA         Feb-97 JJ MCMULLEN         N/A MR         100,000           FY 1997 FY 1997         NFEC PT HEUENEM WR         WR         NAVSEA NAVSEA         Jan-96 Jan-97         Sep-96 N/A         N/A 45,000           FY 1997 FY 1999         NSWC CRANE, IND WR         WR         NAVSEA NAVSEA         Oct-96 Sep-97         Sep-98 N/A         N/A 11,164,000           EMERGENCY BATTERY FY 1999         UNKNOWN DISC PHILA, PA         C/FP NAVSEA         Feb-97 NAVSEA         Feb-98 Sep-99         N/A N/A N/A NAVSEA         8 3an-99         8 3an-99         8 3an-99<	FY 1997         DISC PHILA, PA         MILSTRIP         NAVSEA         Feb-97         Feb-98         N/A         68,000         N/A           FY 1998         DISC PHILA, PA         MILSTRIP         NAVSEA         Jan-99         Jan-99         N/A         71,000         N/A           FY 1999         DISC PHILA, PA         MILSTRIP         NAVSEA         Jan-99         Jan-90         N/A         71,000         N/A           FY 1999         GNB, LOMBARD, IL         C/FP         NAVSEA         Feb-96         Oct-96         3         626,666         YES           FY 1997         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Dec-96         Aug-97         2         640,500         YES           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-99         Jul-99         2         669,500         YES           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Jan-99         Jul-99         2         669,500         YES           FY 1999         GNB, LOMBARD, IL         C/FP/OPT         NAVSEA         Feb-97         Mar-97         N/A         100,000         N/A           FY 1999         NSWC CRANE, IND         WR         NAVSEA <t< td=""><td>  FY 1997   DISC PHILA, PA   MILSTRIP   NAVSEA   Jan-98   Jan-99   Jan-00   N/A   71,000   N/A   N/A</td></t<>	FY 1997   DISC PHILA, PA   MILSTRIP   NAVSEA   Jan-98   Jan-99   Jan-00   N/A   71,000   N/A
P-1 SHOPPING LIST ITEM NO. PAGE NO. 16

Exhibit P-5A Procurement History and Planning CLASSIFICATION:

10

CLASSIFICATION: UNCLASSIFIED

	BUDGET ITEM JUSTIFICATION SHEET P-40									
							FEBRUAR	Y 1997		
APPROPRIATION	/BUDGET ACT	MENCLATUR	IRE							
OPN BA 1: SI	HIPS SUPPO	RT EQUIPM	IENT	EQUIP H1CC	(0949)					
	1996	1997	1998	1999	2000	2001	2002	2003		
QUANTITY										
COST (In Millions)	\$4.9	\$20.8	\$6.4	\$15.9	\$10.7	\$11.7	\$11.9	\$12.1		

#### ITEM DESCRIPTION/JUSTIFICATION

INSURANCE SPARES - Based on experience gained from other submarine classes insurance spare assets are required to support a major ship program. Insurance spares will be available in the event of a catastrophic failure of a major component. These spares will support propulsion, electrical, ship control, major auxiliary systems and other SEAWOLF critical equipments which are currently in procurement for the SEAWOLF Class. Specific components to be bought have been identified based on the history of SSN-688 Class insurance spares and the specific leadtime of each spare. Insurance spares will be installed both by IMA and depot level activities depending on the equipment and the severity of casualty. Most Insurance spares will eventually transition to be rotatable pool spare initial assets prior to scheduled component replacement.

ROTATABLE POOL - Rotatable Pool for support of SEAWOLF Class planned maintenance must be procured and available in time to support the scheduled maintenance actions specified in the SEAWOLF Class Maintenance Plan. The Rotatable Pool concept meets the OPNAV requirement to reduce the duration of depot maintenance periods, reduce repair cost and increase operational availability. Increasing equipment complexity and lengthened repair turnaround times preclude ripout and reinstallation of many submarine components within planned depot availability timeframes. These spares will support propulsion, electrical, ship control, major auxiliary systems and other SEAWOLF critical equipments which are currently in production for the SEAWOLF Class. Specific components to be bought have been identified based upon design completion and ongoing logistic support analysis. Rotatable pool assets will be installed during regular ship upkeeps by IMA/Ships Force personnel and by shipyard personnel during scheduled availabilities (SRAs).

SEAWOLF SPECIFIC IMA/DEPOT EQUIPMENT - Funding within this line will provide Submarine IMAs the support equipment necessary to provide maintenance and repair services on selected SEAWOLF unique systems. Adequate depot capability must exist to repair and maintain new technology systems and equipment on SEAWOLF submarines. This includes the procurement of special support equipment, test program sets, jigs, fixtures, etc. The SEAWOLF Class Performance Monitoring Program requires the procurement of special purpose support equipment necessary for monitoring the performance of critical systems and equipment on operational ships. Prior to FY96, SEAWOLF OPN support was included in a shared budget line: HM&E under \$2M.

P-1 SHOPPING LIST ITEM NO. 17 PAGE NO. 1 CLASSIFICATION:

DD Form 2454, JUL 88

			RAM	COST BREA	KDC	OWN			DATE:	4 DV 4007		
APPRO	PRIATION/BUDGET ACTIVITY	P-5		P-1 ITEM NON	IENC	LATURE/SUBI	IEAD		FEBRU	ARY 1997		
OPN B	A 1 : SHIPS SUPPORT EQUIPMENT			SSN21 CL		SUPPORT						
				TOTAL COST IN THOUSANDS OF DOLLARS								
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997	FY 1998		FY 1999			
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS	QTY	TOTAL COST		
	SUBMARINES (N-87)											
	SSN21 CLASS SUPPORT EQUIPMENT SEAWOLF TOOLS/ EQPT under \$100k	A		4,344 532		18,126 2,648		4,179 2,263		7,468 8,383		
	TOTALS			4,876		20,774		6,442		15,851		
	M 2446 IIIN 96	D 4 01		NC LIST				CI ASSIEICAT	1011			

**DD FORM 2446, JUN 86** 

P-1 SHOPPING LIST ITEM NO. 17 PAGE NO. 2 CLASSIFICATION:

			BUDGET PRO	CUREMENT P-5A	HISTOR	Y AND P	LANNING			DATE FEBRUA	DV 1007
PPROPRIA	ATION/BUDGET ACTIVITY			r-3A	P-1 ITEM N	OMENCLATUI	RE		SUBHEAD	FEDRUA	KI 1997
		_									
OPN	BA-1 SHIP SUPPORT EQUIPMEN	<u>T</u>	SSN21		UPPORT	H1CC	1				
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLI
	SUBMARINES (N87)							(000)			
	FY96										
CC001	SWI PUMP/MOTOR	Ingersoll/Dresser, N.	SS/FFP	NAVSEA	1/96	3/98	2	226.5	YES	NO	
	HPP HYDRAULIC ACCUMULATOR	Precision Machine, R	SS/FFP	NAVSEA	1/96	1/97	1	220.0	YES	NO	
	PERISCOPE MAST (18H MOD1)	Kollmorgen, MA	SS/FFP	NAVSEA	1/97	6/99	1	1,300.0	YES	NO	
	PERISCOPE TUBE (18H MOD1)	Kollmorgen, MA	SS/FFP	NAVSEA	1/97	1/99	1	219.0	YES	NO	
	MAIN SHAFT & SHAFT SLEEVES	Electric Boat, CT	SS/FFP	NAVSEA	1/96	1/97	1	1,686.0	YES	NO	
	RADAR MAST/BPS-16	Sperry, VA	SS/FFP	NAVSEA	1/97	1/98	1	466.0	YES	NO	
	FY97										
C001	HIGH PRESSURE AIR COMPRESSO	Rix, CA	SS/FFP	NAVSEA	1/97	6/99	3	355.0	YES	NO	
	LOW PRESSURE AIR COMPRESSO	Nash, CT	SS/FFP	NAVSEA	1/97	3/00	1	403.0	YES	NO	
	TORPEDO EJECTION PUMP	Nash, CT	SS/FFP	NAVSEA	1/97	3/99	1	4,025.0	YES	NO	
	ASW PUMP/MTR ASSY	Electric Boat, CT	SS/FFP	NAVSEA	1/97	7/98	1	1,487.3	YES	NO	
	MAIN SEAWATER PUMP/MTR ASSY	_	SS/FFP	NAVSEA		12/98	1	3,163.0	YES	NO	
	SANITARY PUMP/MOTOR ASSY	Sargent, AZ	SS/FFP	NAVSEA		11/99	1	1,064.0	YES	NO	
	TRIM/DRAIN PUMP/MOTOR	Warren Pumps, MA	SS/FFP	NAVSEA		1/99	4	345.0	YES	NO	
	CHILLED WTR PUMP/MTR	Warren Pumps, MA	SS/FFP	NAVSEA		3/99	4	122.0	YES	NO	
		Dresser Industries, II	SS/FFP	NAVSEA		12/99	2	283.0	YES	NO	
	PERISCOPE MAST (8J MOD3)	Kollmorgen, MA	SS/FFP	NAVSEA		1/99	1	412.0	YES	NO	
	E&E ADAPTER ASSY (8J MOD3)	Kollmorgen, MA	SS/FFP	NAVSEA	1/97	6/99	1	584.0	YES	NO	
	E&E ADAPTER ASSY (TYPE 18H)	Kollmorgen, MA	SS/FFP	NAVSEA		6/99	1	427.0	YES	NO	
	EYEPIECE ASSY (18H MOD1)	Kollmorgen, MA	SS/FFP	NAVSEA	1/97	1/99	1	320.0	YES	NO	
	MAIN SHAFT SEAL HOUSING	Westinghouse, MA	SS/FFP	NAVSEA		1/98	1	748.0	YES	NO	
	EXTERNAL HYDRAULIC PUMPS	Sargent, AZ	SS/FFP	NAVSEA	1/97	5/98	4	115.0	YES	NO	
	HPP HYD PUMPS & MTRS	IMO Industries, MA	SS/FFP	NAVSEA	1/97	12/98	1	144.0	YES	NO	
	EPM CLUTCH	Westinghouse, PA	SS/FFP	NAVSEA	1/97	1/99	1	372.0	YES	NO	
	LOW PRESSURE BLOWER	Dresser Root, IN	SS/FFP	NAVSEA	1/97	1/98	2	334.0	YES	NO	
	CONTROLLABLE AIR FIRING VALV	Allied Signal, AZ	SS/FFP	NAVSEA	1/97	6/99	1	350.0	YES	NO	

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 17 PAGE NO. 3

	E	BUDGET PRO		HISTOR	Y AND PI	LANNING			DATE	DV 1007
IATION/BUDGET ACTIVITY			1-3A	P-1 ITEM N	IOMENCLATU	RE		SUBHEAD	ILDKOA	11 1991
BA-1 SHIP SUPPORT EQUIPM	ENT			SSN21	CLASS S	UPPORT	EQ	H1CC		
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
SUBMARINES (N87)  FY98  1DATA INTERFACE UNIT  CAMERA ELECTRONIC ASSEMB	Kollmorgan, MA	SS/FFP			3/98	1	148.0	Yes	No	
FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATO	Kollmorgan, MA Precision Machine, R	SS/FFP SS/FFP	NAVSEA NAVSEA	1/97 1/98	6/99 6/99	1	700.0 232.0	Yes Yes	No No	
LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR	Presser Industries, II Ingersoll Rand, NJ	SS/FFP SS/FFP	NAVSEA NAVSEA	1/98 1/98	1/00 1/99	2 2	372.0 238.0	Yes Yes	No No	
MAIN CONDENSATE MOTOR	Ingersoll Rand, NJ	SS/FFP			1/99	2	290.0	Yes	No	
MAIN SHAFT AND SHAFT SLEET MAIN SHAFT SEAL HOUSING	Jorgensen	SS/FFP SS/FFP SS/FFP SS/FFP	NAVSEA NAVSEA	1/99 1/99	1/01 1/01 6/01 6/01	1 1 1	1,832.0 859.0 2,918.0 935.0	Yes Yes Yes Yes	No No No No	
OUTER STERN PLANES & EXT (	EB Corp, CT	SS/FFP	NAVSEA	1/99	6/01	1	924.0	Yes	No	
	LINE ITEM/ FISCAL YEAR  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATO HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR A MAIN CONDENSATE MOTOR  FY99  MAIN SHAFT AND SHAFT SLEEY MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAR	BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  SUBMARINES (N87) FY98 DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME HPP HYDRAULIC ACCUMULATOR (CONTRACTOR AND LOCATION)  HPP HYDRAULIC ACCUMULATOR (CONTRACTOR AND LOCATION)  HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR MAIN CONDENSATE MOTOR  FY99  MAIN SHAFT AND SHAFT SLEE (COUTT) MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAR OUTER STERN DIVING PLANES  CONTRACTOR AND LOCATION  Kollmorgan, MA Kollmorgan, MA Kollmorgan, MA Kollmorgan, MA Kollmorgan, MA Kollmorgan, MA Kollmorgan, MA Ingersoil Rand, NJ	BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATOR HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR / MAIN CONDENSATE MOTOR  FY99  MAIN SHAFT AND SHAFT SLEE' MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAF OUTER STERN DIVING PLANES  CONTRACTOR METHOD  SOFFP METHOD METHO	BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME KOllmorgan, MA FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATOR Crecision Machine, R HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR A MAIN CONDENSATE MOTOR MAIN CONDENSATE MOTOR MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAR RUDDER AND EXTERNAL GEAR OUTER STERN DIVING PLANES  PONTRACTOR  CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD CONTRACTOR METHOD ENTROID STIFFD NAVSEA NAVSEA  NAVSEA  NAVSEA OUTER STERN DIVING PLANES	BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME Kollmorgan, MA FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATO recision Machine, R HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR A Ingersoll Rand, NJ MAIN CONDENSATE MOTOR MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER AND EXTERNAL GEAF RUDDER SS/FFP NAVSEA 1/99	BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  CONTRACTOR AND LOCATION  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEME KOllmorgan, MA FREQUENCY CONVERTER HPP HYDRAULIC ACCUMULATOR Crecision Machine, R HPP HYDRAULIC PUMP LP BLOWER AND MOTOR MAIN FEED PUMP MOTOR MAIN CONDENSATE PMP/MTR / MAIN CONDENSATE MOTOR MAIN SHAFT AND SHAFT SLEEY MAIN SHAFT AND SHAFT SLEEY MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAR ROTTER CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT METHOD AWARD CONTRACT AWARD FIRST AWARD FIR	ATION/BUDGET ACTIVITY  BA-1 SHIP SUPPORT EQUIPMENT  LINE ITEM/ FISCAL YEAR  DATE OF FIRST PLEIVERY  SUBMARINES (N87) FY98  DATA INTERFACE UNIT CAMERA ELECTRONIC ASSEMIE KOllmorgan, MA SS/FFP NAVSEA 1/97 1/98 1 FREQUENCY CONVERTER KOllmorgan, MA SS/FFP NAVSEA 1/97 1/98 1 HPP HYDRAULIC ACCUMULATO (recision Machine, R BLOWER AND MOTOR PLANES IN INTERFACE PUMP NOTOR Ingersoil Rand, NJ SS/FFP NAVSEA 1/98 1/99 2  MAIN FEED PUMP MOTOR Ingersoil Rand, NJ SS/FFP NAVSEA 1/98 1/99 2  MAIN CONDENSATE PMP/MTR / Ingersoil Rand, NJ SS/FFP NAVSEA 1/98 1/99 2  MAIN SHAFT AND SHAFT SLEE JORGENSEN SS/FFP NAVSEA 1/98 1/99 2  MAIN SHAFT SEAL HOUSING AND BE CORP, CT SS/FFP NAVSEA 1/99 1/01 1  MAIN SHAFT SEAL HOUSING RUDDER AND EXTERNAL GEAR EB CORP, CT SS/FFP NAVSEA 1/99 6/01 1  DUTER STERN DIVING PLANES EB CORP, CT SS/FFP NAVSEA 1/99 6/01 1	BA-1 SHIP SUPPORT EQUIPMENT   SSN21 CLASS SUPPORT EQ	P-5A	P-5A     P-5B     P-5B     P-5B     P-5B     P-5B     P-5B   P-5B   P-5B     P-5B   P-5B   P-5B     P-5B   P-5B     P-5B     P-5B     P-5B     P-5B     P-5B     P-5B     P-

DD Form 2446, JUL 87

P-1 SHOPPING LIST ITEM NO. 17 PAGE NO. 4 **CLASSIFICATION:** 

Exhibit P-20, Requirements Study	(Treas) Co	de/CC/BA	A/BSA/Ite	m Control	ol <b>No</b> te			
Main Seawater Pump/MTR ASSY	1810-B	<b>\_1</b>				Februar	y 1997	
P-1 Line Item Nomenclature		Admin L	eadtime (a	after Oct 1	): 3 mont	rod Lea	dtime: 23	months
(Include DODIC for Ammunition Items)								
SSN 21 Class Support EQ	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
Buy Summary	(	) 1	0	0	0	0	0	0
Unit Cost	(	3163.00	0	0	0	0	0	0
Total Cost	(	3163.00	0	0	0	0	0	0
Asset Dynamics								
Beginning Asset Position	(	0	0	0	1	1	1	1
Deliveries from all prior year funding								
Deliveries from CY funding				1				
Deliveries from BY1 funding					0			
Deliveries from BY2 funding						0	0	0
Deliveries from subsequent years' funding								
Other Gains								
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.								
End of Year Asset Position	(	0	0	0	1	1	1	1
Inventory Objective or Current Authorized A	llowance							
Inventory ObjectActual Training Expenditure	thar th	on Trainin	Disposal	e e	Vohieles	<u> </u> Eligible f	A iroroft:	
Inventory Objective dai Training Expenditure	Usage	an mannin	(Vehicles			lacement:		
Assets Rqd for PY thru	PY thru		PY thru	3/ Other)		Eligible f		
Combat Loads::						lacement:		
WRM Rqmt: PY-1:	PY-1:					Attrition	Res:	
Pipeline: PY-2:	PY-2:	PY-2:			BAI			
Other: PY-3:	PY-3:		PY-3:				Inactive 1	lnv:
TOTAL:					Storage:			
REMARKS:	L		1		ı			

P-1 Shopping List Item No 17-5

Page No 5 **Exhibit P-20 Requirements Study** 

Exhibit P-20, I	Requirements Study	Approp (Treas) Code/CC/BA/BSA/Item Control NDate							
Rudder & Ex	ternal Gear	1810-BA					Februar		
P-1 Line Item	Nomenclature	•	Admin L	eadtime (a	after Oct 1):	3 month	sProd Lea	dtime: 30	months
(Include DOD	IC for Ammunition Items)								
SSN 21 Class	Support EQ	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
		FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
Buy Summary		0	0	0	1	0	0	0	0
Unit Cost		0	0	0	2,918.00	0	0	0	0
Total Cost		0	0	0	2,918.00	0	0	0	0
Asset Dynami	ics								
Beginning Ass	set Position	0	0	0	0	0	0	1	1
Deliveries from	n all prior year funding								
Deliveries from	n CY funding								
Deliveries from	n BY1 funding						0		
Deliveries from	n BY2 funding						1	0	0
Deliveries from	n subsequent years' funding								
Other Gains									
Combat Losse	s/Usage								
Training Losse	es/Usage								
Test Losses/Us	sage								
Other Losses/U									
Disposals/Reti	rements/Attritions/etc.								
End of Year A	Asset Position	0	0	0	0	0	1	1	1
Inventory Obje	ective or Current Authorized A	Allowance							
Inventory Objectiv	ve Actual Training Expenditures	Other than 'Usage	Training	Disposals (Vehicles/O	ther)	Vehicles El BY1 Replac	-	Aircraft: TOAI:	
Assets Rqd for	PY thru	PY thru		PY thru	ruici)	Vehicles El		PAA:	
Combat Loads:	:	:		:		BY2 Replace		TAI	
WRM Rqmt:	PY-1:	PY-1:			Vehicle Au		Attrition Re	es:	
Pipeline:	PY-2:	PY-2:	PY-2:					BAI	
Other:	PY-3:	PY-3:		PY-3:				Inactive Inv	<b>'</b> :
TOTAL:								Storage:	
REMARKS:									

P-1 Shopping List Item No 17-6

Page No 6 **Exhibit P-20 Requirements Study** 

Approp (	Treas) Co	de/CC/BA	A/BSA/Ite	m Control	<b>No</b> te		
1810-BA	<b>\-1</b>				Februar	y 1997	
1	Admin L	eadtime (a	after Oct 1	): 3 mont	Brod Lea	dtime: 26	months
		,		,			
PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
0	1	0	0	0	0	0	0
0	4025.00	0	0	0	0	0	0
0	4025.00	0	0	0	0	0	0
0	0	0	0	1	1	1	1
		0					
			1				
				0			
					0	0	0
0	0	0	0	1	1	1	1
llowance							
Other than	<u>I</u> Training	Disposals	1	Vehicles Eli	igible for	Aircraft:	
Usage			Other)				
PY thru		PY thru				-	
-							
			gment:		s:		
	· ·					•	
1 1-3.		11-3.					•
l		<u> </u>		1			
	PY FY96 0 0 0 0 llowance Other than	Name	Admin Leadtime (see   PY	Admin Leadtime (after Oct 1	Name	Admin Leadtime (after Oct 1): 3 mont Parod Leader	Name

P-1 Shopping List Item No 17-7

Page No 7 **Exhibit P-20 Requirements Study** 

Exhibit P-40, Budget Item J	ustification		Date					
							February 1997	
Appropriation (Treasury) Co	ode/CC/BA/BSA	/Item Control No	P-1 Line Item Nomenclature					
Other Procurement, NAV	Y/1810/BA-1/Bl	LI#0950	Strategic Platform Support Equipment (81HH)					
Program Element for Code I	B Items:	Other Related P	_					
	PY	CY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4
Cost (In Millions)	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Procurement Quantity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gross Cost	\$4.4	\$9.0	\$6.4	\$6.9	\$6.6	\$2.9	\$1.9	\$4.5
Total Procurement Cost	\$4.4	\$9.0	\$6.4	\$6.9	\$6.6	\$2.9	\$1.9	\$4.5

Funding in this P-1 line provides for the procurement of tactical Hull, Mechanical and Electrical (HM&E) equipment that will be installed aboard ships and in the facilities at the TRIDENT Refit Facility (TRIREFFAC) and TRIDENT Training Facility (TRITRAFAC). The TRIDENT Refit Facility is a dedicated shore support facility providing a full range of industrial support. Unlike many other programs, TRIDENT does not use tenders for industrial support, but rather depends upon the TRIREFFAC for a full range of maintenance functions. The TRITRAFAC provides the crews for the SSBN 726 Class Submarines with realistic training experience in operating and maintaining shipboard equipment.

TRIPER ASSETS (HM&E) - In order to achieve the required operational availability and not exceed a specific Engineered Availability (EA) Period, a planned, progressive incremental overhaul of the submarine is accomplished utilizing the TRIDENT PLANNED EQUIPMENT REPLACEMENT (TRIPER) Program's inventory of pretested, prestaged ready for issue equipments. TRIPER stock levels are calculated as functions of equipment change out dates, procurement lead times, repair turn around times, equipment recoverability, equipment population and safety level requirements.

HM&E ALTERATIONS - This program provides for installation Material Packages for the TRIDENT System Modernization Program (TSMP). This provides for modernization of SSBN 726 Class Submarines and dedicated Shore Support Facilities (TLCSF, TRITRAFAC (B), TRIREFFAC (B), TRITRAFAC (KB), TRIREFFAC (KB), Major Shore Spares (MSS)). Modernization is necessary in order to replace obsolete/outdated equipments with new state-of-the-art equipments to maintain or increase mission capabilities, replace or modify components/systems which have proven to be unreliable, correct design and safety problems and reduce the fleet maintenance burden. This program includes funds for installation of Noise Quieting Equipment and system/hull modifications to reduce noise transmission to meet Submarine Silencing goals.

Exhibit P-40, Budget Item Justification	Date
	February 1997
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number	P-1 Line Item Nomenclature
Other Procurement, NAVY/1810/BA-1/BLI#0950	Strategic Platform Support Equipment (81HH)

The emergence of complex and high priority TRIDENT System capability improvements to be installed during normal TRIDENT refit periods requires the utilization of specially trained and dedicated teams to ensure accelerated and correct installation of the required capability within specified time frames. Provided are comprehensive program management and execution, including planning, direction, control, installation, integration, and coordination of specifically selected safety related, mission enhancement or technical HM&E alterations.

Specifically includes: Formation of teams; coordination with the design activity; intensified system training; material receipt, inspection, and acceptance; coordination with refit facility and fleet personnel; installation, testing, and certification of the required capability; and orientation of new operators to the new installation.

TRIDENT ENGINEERED AVAILABILITY (EA) - TRIDENT EA material support funding is required to provide replacement and contingency material to support the critical path schedule during the SSBN 726 Class Submarine Engineered Availabilities (EAs) commencing in FY93 and continuing through the operational life of the submarine. This equipment is separate and exclusive of TRIPER program equipment. Funding is also required to formulate or procure complex tools and fixtures required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages.

HM&E MODERNIZATION KITS - Accomplishes alterations and actions at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations, and upgrades to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFACs. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the TRIREFFAC, Bangor, and the TRIREFFAC, Kings Bay.

P-1 Shopping List - Item No 18

Page No 2

Exhibit P-40, Budget Item Justification

Exhibit P-5 Cost Analysis				Weapon Sy	stem		Date:			
(Page 1)								February 199	7	
Appropriation (Treasury) Code/CC	C/BA/BSA	/Item Contro	l Number			ID Code	P-1 Line Item N	Nomenclature	(81HH)	
							Strategic Platf	orm Support E	quipment	
Other Procurement, NAVY/1810	0/BA-1/BI	L <b>I#0950</b>				HH000				
WBS COST ELEMENTS	ID	PYs	PY	PY	CY	CY	BY1	BY1	BY2	BY2
Cost (In Millions)	Code	Total Cost	FY1996	FY1996	FY1997	FY1997	FY1998	FY1998	FY1999	FY1999
(Tailor to System/Item Rqmts)			Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Quantity										
Airframes/CFE										
Engine/Accessories										
CFE Avionics										
GFE Avionics										
Armament										
ECO (Flyaway)										
Nonrecurring Costs										
Tooling										
Software Costs										
Other Costs										
Subtotal Flyaway										
Airframe PGSE										
Engine PGSE										
Avionics PGSE										
Peculiar Training Eqpt										
Publications/Tech Data										
ECO (Support Items)										
Other	A			4.429		9.037		6.435		6.931
Subtotal Support Costs										
Gross-P-1 End Item Cost										
Less PY Adv Proc (by PY FY)										
Net P-1 Full Funding Cost										
Plus CY Adv Proc										
Other Non P-1 Costs										
Initial Spares										
Mods										
Total				4.429		9.037		6.435		6.931

Exhibit P-5 Cost Analysis							Date:			
(Page 1)								February 1997	7	
Appropriation (Treasury) Code/CC	/BA/BSA	/Item Contro	ol Number			ID Code	P-1 Line Item I		(81HH)	
							Stretegic Platf	orm Support E	quipment	
Other Procurement, NAVY/1810	)/BA-1/BJ	L <b>I#0950</b>				HH012	TRIDENT En	gineered Availa	bility Materia	1
WBS COST ELEMENTS	ID	PYs	PY	PY	CY	CY	BY1	BY1	BY2	BY2
Cost (In Millions)	Code	Total Cost	FY1996	FY1996	FY1997	FY1997	FY1998	FY1998	FY1999	FY1999
(Tailor to System/Item Rqmts)			Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Quantity										
Airframes/CFE										
Engine/Accessories										
CFE Avionics										
GFE Avionics										
Armament										
ECO (Flyaway)										
Nonrecurring Costs										
Tooling										
Software Costs										
Other Costs										
Subtotal Flyaway										
Airframe PGSE										
Engine PGSE										
Avionics PGSE										
Peculiar Training Eqpt										
Publications/Tech Data										
ECO (Support Items)										
Other	A			4.429		7.800		3.740		3.854
Subtotal Support Costs										
Gross-P-1 End Item Cost										
Less PY Adv Proc (by PY FY)										
Net P-1 Full Funding Cost										
Plus CY Adv Proc										
Other Non P-1 Costs										
Initial Spares			_							
Mods										
Total				4.429	T' . T.	7.800		3.740		3.854

Exhibit P-5 Cost Analysis							Date:			
(Page 1)								February 199	7	
Appropriation (Treasury) Code/Co Other Procurement, NAVY/181			ol Number			ID Code HH017	P-1 Line Item N Strategic Platf HM&E Moder	orm Support E	(81HH) quipment	
WBS COST ELEMENTS	ID	PYs	PY	PY	CY	CY	BY1	BY1	BY2	BY2
Cost (In Millions)	Code	Total Cost	FY1996	FY1996	FY1997	FY1997	FY1998	FY1998	FY1999	FY1999
(Tailor to System/Item Rqmts)			Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Quantity										
Airframes/CFE										
Engine/Accessories	1									
CFE Avionics										
GFE Avionics										
Armament										
ECO (Flyaway)										
Nonrecurring Costs										
Tooling										
Software Costs										
Other Costs										
Subtotal Flyaway										
Airframe PGSE										
Engine PGSE										
Avionics PGSE										
Peculiar Training Eqpt										
Publications/Tech Data										
ECO (Support Items)										
Other	A			.000		1.237		2.695		3.077
Subtotal Support Costs										
Gross-P-1 End Item Cost										
Less PY Adv Proc (by PY FY)										
Net P-1 Full Funding Cost										
Plus CY Adv Proc										
Other Non P-1 Costs										
Initial Spares										
Mods										
Total				.000	T ' . T.	1.237		2.695		3.077

Exhibit P-5a, Procurement History and F	Planning			Weapon Sy	stem			DATE:		
(Page 1)									February 19	97
Appropriation (Treasury) Code/CC/BA/	BSA/Item	Control Nu	ımber	•			P-1 Line Iten	n Nomenclature	(81HH)	•
							Strategic Pla	atform Support	Equipment	ļ
Other Procurement, Navy/1810/BA-1	/BLI#095	0					HH012 TRI	DENT Enginee	red Availabili	ty Material
					Contract				Specs	Date
WBS COST ELEMENTS		Unit	Location	RFP Issue	Method and	Contractor		Date of	Available	Revisions
(Tailor to System/Item Rqmts)	Qty	Cost	of PCO	Date	Type	and Location	Award Date	First Delivery	Now?	Available
Past Year ( or last yr of proc)										
FY-1996										
EA Advanced Planning	1	.188	NAVSEA		PO/FP	PSNY / Bremerton, WA	3/96	4/96	YES	N/A
EA Material	1	.400	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/96	3/96	YES	N/A
EA Advanced Planning (SSBN 727)	1	3.841	NAVSEA		PO/FP	PSNY / Bremerton, WA	11/95	12/95	YES	N/A
FY-1997										1
ERP/EOH Prod. Eng. & Mgt./Material	1	4.500	NAVSEA		PO/FP	PSNY / Bremerton, WA	12/96	12/96	YES	N/A
Install of Portable AFF Injection Units	1	.600	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/97	4/97	YES	N/A
500 KW SSMG Set Positive Pressure	1	.196	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/97	4/97	YES	N/A
CFC-12 (R-12) Ships Stores Refrig.	1	.188	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/97	4/97	YES	N/A
Procure/Qual Protype Level Control	1	.283	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/97	4/97	YES	N/A
Sub Mod Alterations	1	2.033	NAVSEA		PO/FP	EB GD/EB DIV / Groton, CT	2/97	4/97	YES	N/A
FY-1998										-
ERP/EOH Prod. Eng. & Mgt./Material	1	3.740	NAVSEA		PO/FP	PSNY / Bremerton, WA	12/97	4/98	YES	N/A
FY-1999										
ERP/EOH Prod. Eng. & Mgt./Material	1	3.854	NAVSEA		PO/FP	PSNY / Bremerton, WA	12/98	4/99	NO	N/A
		D 1 01	nning List It	N. 10				I		Dogo No 6

Exhibit P-5a, Procurement History and F	Planning			Weapon Sys	stem			DATE:		
(Page 1)									February 19	97
Appropriation (Treasury) Code/CC/BA/	BSA/Item	Control Nu	mber				P-1 Line Item	n Nomenclature	(81HH)	
							Strategic Pla	atform Support	Equipment	
Other Procurement, Navy/1810/BA-1	/BLI#095	0					HH017 HM	&E Modernizat	ion Kits	
					Contract				Specs	Date
WBS COST ELEMENTS		Unit	Location	RFP Issue	Method and	Contractor		Date of	Available	Revisions
(Tailor to System/Item Rqmts)	Qty	Cost	of PCO	Date	Type	and Location	Award Date	First Delivery	Now?	Available
Past Year ( or last yr of proc)										
FY-1996										
NONE										
FY-1997										
1/2" O2 Hull Stop Valve	1	.377	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
D-5 Camp Cable Connectors	1	.039	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
(C4) SWS 5V DC Power Supply	1	.053	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
Aux. Sea Water Pump Mod.	1	.734	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
Upgrade MSDS Computer H/W	1	.004	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
ACB2002HRC,ACB4001 Design	1	.030	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	2/97	4/97	YES	N/A
FY-1998										
SNAP III East Coast Ships	3	.300	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
ACB2002HRC,ACB4001 Design	1	.309	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
SWS 70KW AC/DC Converter	1	.609	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	1/98	5/98	YES	N/A
Misc Mod Material @ TRF &TTF	1	.200	NAVSEA		PO/FP	TRIDENT Training Facility, Bangor	1/98	5/98	YES	N/A
Ship Turbine Generator Governor	1	.270	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
Flammable /Hazardous Material Lock.	1	.135	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
APH-16/17Relief Valve Mod.	1	.029	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
SNAP III (Facility TTF) H/W & Assy	1	.108	NAVSEA		PO/FP	TRIDENT Training Facility, Kings Bay	12/97	4/98	YES	N/A
Rudder/FW Planes Feedback & Ball	1	.094	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A
Sanitary Tank #3 Upper/Lower Attach	1	.041	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/97	4/98	YES	N/A

Exhibit P-5a, Procurement History a	and Plann	ing		Weapon S	System			DATE:		
(Page 2)		C		1	,				Februar	y 1997
Appropriation (Treasury) Code/CC/ Other Procurement, Navy/1810/E			ol Number				Strategic P	m Nomenclat latform Supp I&E Moderr	ort Equi	•
					Contract				Specs	Date
WBS COST ELEMENTS		Unit	Location	RFP Issue	Method and	Contractor		Date of	Available	Revisions
(Tailor to System/Item Rqmts)	Qty	Cost	of PCO	Date	Type	and Location	Award Date	First Delivery	Now?	Available
FY-1999										
Misc Mod Material @ TRF &TTF	1	.210	NAVSEA		PO/FP	TRIDENT Training Facility, Bangor	12/98	4/99	NO	N/A
400 HZ Volt & Frequency Reg.	1	1.080	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/98	4/99	NO	N/A
Two Addtl. Fire Fighting Stations	1	.094	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/98	4/99	NO	N/A
Mod Power-On Reset Circuit	1	.040	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/98	5/99	NO	N/A
Missile Tube Heating & Cooling	1	.020	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	12/98	5/99	NO	N/A
Vapor Compressor Redesign	1	.135	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	1/99	6/99	NO	N/A
Replace (8) 5" Launcher with 6"	1	.255	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	1/99	6/99	NO	N/A
Turbine Pump Ejector System	1	.138	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	1/99	7/99	NO	N/A
SNAP III (Facility TTF) H/W	1	.147	NAVSEA		PO/FP	TRIDENT Training Facility, Bangor	1/99	7/99	NO	N/A
Sanitary Tank #3 Upper/Lower	1	.047	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
Rev. 6.0 CCS TCAS Update	1	.121	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
120V VAC Power Dist Panels	1	.141	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
PLO Pump 5-Idler Mod	1	.158	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
ASW Pump Mod	1	.158	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
MSW Pump Conversion	1	.158	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
ASW-16/17/18 Safe End Valves	1	.150	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
MCC Vamp EEPROM	1	.025	NAVSEA		PO/FP	EB GD/EB Div/Groton, CT	5/99	10/99	NO	N/A
			D 1 01	T T.	N. 10					D. M. O.

Exhibit P-40, Budget Item Justification				Date					
				FEBRUARY 19	997				
Appropriation (Treasury) Code/CC/BA/BSA/Item Contro	l Number			P-1 Line Item N	Iomenclature				
OTHER PROCUREMENT, NAVY/BA-1 SHIP SUP	PORT EQUIPMEN	Γ		DSSP EQUIP	MENT/81HJ			BLI#:0955	
Program Element for Code B Items:			Other Related	Program Elemen	ts				
	ID	FY	FY	FY	FY	FY	FY	FY	FY
	Code	1996	1997	1998	1999	2000	2001	2002	2003
Procurement Qty		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gross Cost		\$6.5	\$5.1	\$7.3	\$7.4	\$6.8	\$5.9	\$6.1	\$6.4
Total Procurement Cost		\$6.5	\$5.1	\$7.3	\$7.4	\$6.8	\$5.9	\$6.1	\$6.4

#### DESCRIPTION

The Deep Submergence Systems Program (DSSP) is responsible for the procurement, life cycle support, and improvement and modernization of assigned platforms and programs. The DSSP program provides for the procurement of equipment to support the establishment and maintenance of fleet capability for a number of programs which perform submarine research and rescue, inspection, object location and retrieval from the ocean environment, and research and scientific exploration missions. DSSP procurements replace obsolete, non-supportable equipment and subsystems through phased improvement and modernization projects. These projects may include special ship alterations, field change kits, and design corrections. DSSP systems include:

#### DEEP SUBMERGENCE RESCUE VEHICLES (DSRV) (HJ010)

The DSRVs provide the fleet with a world-wide capability to rescue personnel from submarines disabled on the ocean floor. These funds procure field changes and modernized subsystems for the operating DSRVs MYSTIC (DSRV-1) and AVALON (DSRV-2). Since there are only two DSRVs, one of which must be on 24-hour alert-ready status to respond to a submarine rescue mission anywhere in the world, their reliability and maintainability (minimum down-time) are key to mission readiness, response time, and operational safety. The resolution of equipment deficiencies necessitates that the highest priority field changes/modernizations be completed each fiscal year.

#### SUBMARINE NR-1 (HJ020)

The NR-1 is a unique, one-of-a-kind nuclear-powered research and ocean engineering submarine designed for extended search, object recovery, device implantment and submerged repair, and oceanographic research missions. Its research capabilities include ocean topography and geology, and it is capable of on-site data collection on the thermal optical, biological, and acoustic environments of the deep ocean. The NR-1 is equipped with several special systems which provide the capability to perform a number of military and scientific missions, and it has been successful in recovering items of high military value from the ocean floor. (For example, the NR-1 was an important element of the space shuttle "Challenger" recovery operations.) NR-1 is also fitted with special devices, such as an external manipulator arm, to enable it to recover objects on the ocean floor. NR-1's recent refueling overhaul, which included the installation of a new sonar system, has extended its useful life for another 20 years.

Exhibit P-40, Budget Item Justification		Date		
		FEBRUARY 1997		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number		P-1 Line Item Nomenclature		
OTHER PROCUREMENT, NAVY/BA-1 SHIP SUPPORT EQUIPMENT		DSSP EQUIPMENT/81HJ	BLI#:0955	
Program Element for Code B Items:	Other Related l	Program Elements		

### DEEP SUBMERGENCE VEHICLES (DSV) (HJ050)

The TURTLE (DSV-3) and SEA CLIFF (DSV-4) are manned, non-combatant submersibles which provide the Navy with unique deep-ocean underwater location and recovery capabilities. These capabilities include the location, recovery, and deployment of items of military and scientific interest. The DSVs can also be deployed in a number of emergency situations to locate, evaluate, and in some cases retrieve objects from the deep ocean environment. They are capable of airlift by C-5A aircraft on a world-wide basis. The TURTLE has an operating depth of 10,000 feet and the SEA CLIFF, with its titanium hull, can operate at a depth of 20,000 feet.

#### UNMANNED VEHICLE SYSTEMS (HJ060)

The Tethered Unmanned Work Vehicle System (TUWVS) provides operational forces with an effective means of conducting ocean bottom searches, inspections, object recovery, and work operations to a depth of 5,000 feet. The Advanced Tethered Vehicle, which is cable controlled, can perform these same operations to depths of 20,000 feet. In addition, side look sonar search and inspection systems with depth capability up to 7000 feet are operated and maintained by the unmanned vehicle detachment.

### SUBMARINE RESCUE CHAMBER (HJ080)

Provides world-wide capability to rescue personnel from submarines disabled on the ocean floor. SRC's can carry six rescuees per trip as compared to 24 on DSRVs. These units are 50 year old technology, simple but effective. The retirement of the ASR Class Submarine Rescue Ships required two fly-away SRC rescue kits in FY 1996.

#### ADS (NEWTSUIT) (HJ090)

A COTS one man, one atmosphere diving system that will provide world-wide capability in support of Submarine Rescue Chambers (SRC) mission. ADS will be used to clear disabled submarines seating surfaces, attach the SRC downhaul cable and attach salvage fittings.

#### EOUIPMENT INSTALLATION (HJINS)

These funds are for the installation of DSSP equipment, as well as the training equipment and items which support shore facilities.

	1		
Exhibit P-40, Budget Item Justification		Date	
		FEBRUARY 1997	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number		P-1 Line Item Nomenclature	
OTHER PROCUREMENT, NAVY/BA-1 SHIP SUPPORT EQUIPM	ENT	DSSP EQUIPMENT/81HJ	BLI#:0955
		Program Elements	
		8	
SOURCES: The sources for these acquisitions are limited. There are few private companies acti with the specialized experience, knowledge, and facilities to meet the exacting requi are typically required with LESC, CSDL, and PARAMAX to continue their support open competition is utilized.	irements of the	DSSP programs. Accordingly, sole source contracts	
REFERENCES: Acquisition Plans 584-87 Revision 4 approved 14 July 1993.			

#### WEAPON SYSTEM COST ANALYSIS DATE: FEBRUARY 1997 EXHIBIT P-5

APPROPRIATION/BUDGET ACTIVITY

OTHER PROCUREMENT, NAVY/BA-1

P-1 ITEM NOMENCLATURE/SUBHEAD DSSP EQUIPMENT/81HJ

					TOTA	L COST IN THOUS	SANDS	OF DOLLARS		
COST	ELEMENT OF COST	IDENT CODE		FY96		FY97		FY98		FY99
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
HJ010	RESCUE/DSRV	A		\$2,487		\$2,329		\$2,274		\$2,842
HJ020	NR-1	A		1,162		1,106		1,146		1,225
НЈ050	DSV (TURTLE/SEA CLIFF)	A		1,220		0		0		0
НJ060	UNMANNED VEHICLE SYSTEMS	A		297		1,200		1,343		1,568
НЈ080	SUBMARINE RESCUE CHAMBERS	A		323		0		225		0
HJ090	ADS	В		0		0		125		150
	MATERIAL TOTAL			\$5,489		\$4,635		\$5,113		\$5,785
HJINS	EQUIPMENT INSTALLATION (NON-FMP)	A		1,029		475		2,156		1,641
	GRAND TOTAL			\$6,518		\$5,110		\$7,269		\$7,426
				P-1 SHOPPING LIST			CLASSI	FICATION:		EXHIBIT P-:

DD FORM 2446, JUN 86

ITEM NO. PAGE NO. 19

Exhibit P-5a, Procuremnt History and Planning			Weapon System				Date FEBRUARY 1997	266		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLI#: 0955	rol Number 0955					P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ) HJ010 RESCUE/DSRV SUPPORT EQUIPMENT	PPORT EQUIP	MENT		
WBS COST ELEMENTS (Tailor to System/Item Rqmts)		Unit	Location	RFP Issue	Contract Method and	Contractor		Dates of	Specs Available	Date Revisions
	Qty	Cost	of PCO	Date	Type	and Location	Award Date	First Delivery	Now?	Available
FY1996										
DS/OAS FC 646	1	\$113	NAVSEA	<u> </u>	SSM5/OPTION	LMESC - S. Diego, CA	96/9	5/97	YES	N/A
List System Repl	2	\$830	NAVSEA		SSM5/OPTION	LMESC - S. Diego, CA	96/L	76/7	YES	N/A
New Support Ship Rail Sys	1	\$91	NAVSEA		SSM5/OPTION	LMESC - S. Diego, CA	96/9	96/6	YES	N/A
DS/OAS Spares	1	\$449	NAVSEA	5.2	SSM5/OPTION	LMESC - S. Diego, CA	96/6	26/6	YES	N/A
AMP HR Meter RPL	2	\$33	NAVSEA		SSM5/OPTION	CSDL - Boston, MA	96/L	L6/L	YES	N/A
7.5 HP Motor Controller	2	\$24	NAVSEA		SSM5/OPTION	CSDL - Boston, MA	96/L	L6/L	YES	N/A
Main PRP PWR PNL (MPPP)	2	\$12	NAVSEA		SSM5/OPTION	CSDL - Boston, MA	96/L	L6/L	YES	N/A
EMER Ship Control Panel	2	\$18	NAVSEA		SSM5/OPTION	CSDL - Boston, MA	96/L	L6/L	YES	N/A
FY1997										
SSN 23 MOSUB Interface	1	\$1,500	NAVSEA	<u> </u>	SSM5/OPTION	LMESC - S. Diego, CA	2/97	10/98	YES	N/A
C-17 LTV & Fly Away Plan	1	\$829	NAVSEA	5	SSM5/OPTION	LMESC - S. Diego, CA	2/97	10/97	NO	12/96
FY1998										
ICAD PRSSR Upgrade	3	\$758	NAVSEA	0,	SSM5/OPTION	CSDL - Boston, MA	2/99	2/00	NO	12/97
FY1999										
Pressure Capsule 3 Birdcage & Valves	2	\$724	NAVSEA	.,	SSM5/OPTION	LMESC - S. Diego, CA	2/99	2/00	YES	N/A
SSN 21 Transport SPT EQ	1	\$290	NAVSEA	3	SSM5/OPTION	LMESC - S. Diego, CA	2/99	2/00	NO	12/98
Sub Distress Buoys	2	\$492	SPAWAR	[	PD	SPAWAR	66/7	2/00	YES	N/A
PWR CBL RPL	2	09\$	NAVSEA	5.2	SSM5/OPTION	CSDL - Boston, MA	2/99	2/00	YES	N/A
		P-1 Shopping List - Item No 19	- Item No 19						ш,	Page No. 5

P-1 Shopping List - Item No 19

Exhibit P-5a, Procuremnt History and Planning			Weapon System				Date FEBRUARY 1997	766		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLJ#: 0955	trol Number 0955	1				P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ) HJ020 NR-1	1			
WBS COST ELEMENTS (Tailor to System/Item Rqmts)	Qiy	Unit	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Dates of First Delivery	Specs Available Now?	Date Revisions Available
<u>FY1996</u>										
Manipulator	1	\$759.5	N/S			LMTDS	96/9	2/97	YES	N/A
Tow Release	1	\$93	SUPSHIP			EBCorp	96/L	96/8	YES	N/A
BMS Test Equipment	1	\$11	N/S			LESC	3/96	96/6	YES	N/A
AFT ALT. Filter	1	\$22	N/S			LMTDS	2/96	96/8	YES	N/A
Damper MOD 4 VB Press	2	\$26.8	N/S			EBCorp	1/96	1/96	YES	N/A
Transducer (Cost Growth)										
GPS Hand Held Unit	1	\$43	N/S			LMTDS	96/9	<i>L6/9</i>	YES	N/A
Intercom/PBU (Cost Growth)	1	\$119	N/S			LMTDS	96/9	<i>L6/9</i>	YES	N/A
IPU (Cost Growth)	1	£83.	S/N			LMTDS	96/9	1/97	YES	N/A
3 KVA Static Invent	1	\$24	SUPSHIP			EBCorp	96/L	1/97	YES	N/A
<u>FY1997</u>										
UQC/ARD 8000 Interface Unit	1	\$150	N/S			LMTDS	2/97	12/97	YES	N/A
Comp Interface	1	\$204	N/S			LMTDS	4/97	4/99	YES	26/6
Video REC	1	\$150	N/S			LMTDS	4/97	4/98	YES	26/6
1000 W Incandecent Lighter	1	\$225	N/S			LMTDS	12/96	12/97	YES	96/6
HYD Valve Replacment	1	\$177	SUPSHIP			EBCorp	12/96	26/6	YES	96/6
Aft Altitude Receiver	1	\$200	N/S			LMTDS	12/96	12/97	YES	N/A
FY1998										
Underwater Modem	3	\$206.7	N/S			LMTDS	2/98	2/99	NO	12/97
Fiber Optic Interface Unit	2	888	SUPSHIP			EBCorp	2/98	12/98	NO	12/97
SLS Rec/Elect	2	\$175	N/S			LMTDS	4/98	4/99	YES	N/A
<u>FY1999</u>										
Velocimeter	1	\$290	N/S			LMTDS	12/98	12/99	YES	8/98
CTD/CV	1	\$271	N/S			LMTDS	2/99	2/00	YES	12/98
Horizontal Sit Display	1	\$223	N/S			LMTDS	2/99	3/00	YES	N/A
I&C PWR SWC HB	1	\$250	N/S			LMTDS	5/99	2/00	YES	N/A
TV Camera Replacement	1	\$191	N/S			LMTDS	3/99	2/00	YES	86/6

P-1 Shopping List - Item No 19

Exhibit P-5a, Procuremnt History and Planning		2	Weapon System				Date FEBRUARY 1997	76		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLJ#: 0955	trol Number 0955					P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ)				
				•		HJ050 DSV (TURTLE/SEA CLIFF) SUPPORT EQUIPMENT	A CLIFF) SUPPO	ORT EQUIPME	NT	
WBS COST ELEMENTS					Contract				Specs	Date
(Tailor to System/Item Rqmts)	ΔĮΟ	Unit	Location of PCO	RFP Issue Date	Method and Tyne	Contractor and Location	Award Date	Dates of First Delivery	Available Now?	Revisions Available
	S				-37-					
FY1996										
DSV 4 Syntactic Foam	1	\$938	NAVSEA		WX	NAVSHIPYD/PTSMH	96/5	1/97	YES	N/A
Manipulator	1	\$282	NAVSEA		WX	COASTASYSSTA	96/L	10/96	YES	N/A
						Panama City, FL				

P-1 Shopping List - Item No 19

Exhibit P-5a, Procurement History and Planning

Exhibit P-5a, Procuremnt History and Planning			Weapon System				Date FEBRUARY 1997	76		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLJ#: 0955	rol Number 0955					P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ) HJ060 UNMANNED VEHICLE SYSTEMS EQUIPMENT	ICLE SYSTEM	S EQUIPMENT		
WBS COST ELEMENTS (Tailor to System/Item Rqmts)	Qty	Unit	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Dates of First Delivery	Specs Available Now?	Date Revisions Available
EV 1996										
ATV Handling SYS Mods	1	\$297	NAVSEA		C/OPTION	O'Tech - Upper Malboro	4/96	10/96	YES	N/A
FY1997	,							9	,	
ATV Handling STS Mods THWVS Fly Away Hardware & Plan	-	0000	V V		C/OPTION	O'Tech - Upper Malboro	797	86/7	ON ON	12/96
The state of the s	1	÷							2	
FY1998										
TUWVS Depth Upgrade	1	\$1,343	NAVSEA		C/OPTION	O'Tech - Upper Malboro	1/98	1/99	NO	12/97
FY1999										
TUWVS Tracking Upgrade	2	\$175	NAVSEA		C/OPTION	O'Tech - Upper Malboro	1/00	1/01	YES	N/A
Viewing & Lighting Upgrade	2	\$200	NAVSEA		C/OPTION	O'Tech - Upper Malboro	1/00	6/01	YES	N/A
Obsolete Equipment Repl	1	\$818	NAVSEA		C/OPTION	OTech - Upper Malboro	1/00	6/01	YES	N/A

P-1 Shopping List - Item No 19

Exhibit P-5a, Procurement History and Planning

Exhibit P-5a, Procuremnt History and Planning			Weapon System				Date FEBRUARY 1997	76		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLJ#: 0955	rol Number 0955	-				P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ) HJ080 STIRMA RINE RESCITE CHAMBERS	CIE CHAMBEI	×		
WBS COST ELEMENTS (Tailor to System/Item Remts)		Unit	Location	RFP Issue	Contract Method and			Dates of	Specs Available	Date Revisions
	Qty	Cost	of PCO	Date	Type	and Location	Award Date	First Delivery	Now?	Available
FY1996										
HPAC	1	\$125	NAVSEA		WX	NAVSHIPYD, PTSMH	2/96	10/96	YES	N/A
SRC Air Banks	1	66\$	NAVSEA		WX	NAVSHIPYD, PTSMH	2/96	10/96	YES	N/A
SPRFA Light TNR & GEN	1	66\$	NAVSEA		WX	NAVSHIPYD, PTSMH	2/96	10/96	YES	N/A
FY1998										
Fly Away Hardware & Plan Spares	1	\$225	NAVSEA		WX	NAVSHIPYD, PTSMH	12/98	66/8	YES	N/A

P-1 Shopping List - Item No 19

Page No 9 Exhibit P-Sa, Procurement History and Planning

Exhibit P-5a, Procuremnt History and Planning			Weapon System				Date FEBRUARY 1997	766		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number OTHER PROCUREMENT, NAVY/1810/BA-1/BLJ#: 0955	trol Number 0955					P-1 Line Item Nomenclature DSSP EQUIPMENT (81HJ) HJ090 ADS				
WBS COST ELEMENTS (Tailor to System/Item Rqmts)	Qiy	Unit	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Dates of First Delivery	Specs Available Now?	Date Revisions Available
FY1998										
Rescue Support Tools	1	\$125	NAVSEA		WX	COASTASYSSTATION	2/98	10/98	NO	12/97
FV 1999										
Suit COMMS Upgrade	3	\$50	NAVSEA		WX	COASTASYSSTATION	2/99	10/99	YES	N/A

P-1 Shopping List - Item No 19

Exhibit P-5a, Procurement History and Planning

Exhibit P-3a, Individual Modification

MYSTIC DSRV-1/AVALON DSRV-2

TYPE MODIFICATION:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP) MODIFICATION TITLE:

DESCRIPTION/JUSTIFICATION:

MODELS OF SYSTEMS AFFECTED:

DEEP SUBMERGENCE RESCUE VEHICLES- HI010

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

							F	INANCIA	FINANCIAL PLAN: (TOA, \$ in MILLIONS)	(TOA, \$ i	n MILLIC	NS)									
PROCUREMENT	Prio	Prior Years	FY	FY 1996	FY 1997	1661	FY 1998	866	FY 1999	66	FY 2000	00	FY 2001	11	FY 2002	I	FY 2003		JC		Total
	Qty	<del>\$</del>	Qty	↔	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	\$	Qty \$	Qty	<del>\$</del>	Qty	\$	Qty	↔
QUANTITY																					
INSTALLATION KITS			13	2.487	2	2.329	3	2.274	7	2.842	2 2	2.488	9	2.511	9 2.589	13	2.722	VAR	R VAR	25	20.242
INSTALLATION KITS																					
NONRECURRING																					
EQUIPMENT																					
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE																					
ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
INTERIM CONTRACTOR																					
SUPPORT																					

P-1 Shopping List Item No 19

Page No 11 Exhibit P-3a, Individual Modification FEBRUARY 1997

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

MODIFICATION TITLE:

MYSTIC DSRV-1/AVALON DSRV-2-HJ010

VARIOUS

Exhibit P-3a, Individual Modification (Continued)

MODELS OF SYSTEMS AFFECTED:

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: CONTRACT DATES: DELIVERY DATE:

MONTHS VARCurrent Year: Current Year:

Budget Year 1:

VAR

VARVAR

Budget Year 2: Budget Year 2:

MONTHS

VAR

PRODUCTION LEADTIME:

VARVAR

Budget Year 1:

TCQty 13 6 1.879 FY 2003 Qtò m 0.431 1.286 FY 2002 Qtò NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS 0.901 0.306  $\rm FY~2001$ Qty 1.089 FY 2000 Qt/ (\$ in MILLIONS) 0.342 0.456 FY 1999 Qtò <sup>1</sup> ∞ <sub>1</sub> 0.750 FY 1998 Qt Ot 090.0 0.000 FY 1997 Qty VAR0.180 S FY 1996 Qt DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Prior Years g FY96 EQUIPMENT AND PRIOR FY97 EQUIPMENT FY00 EQUIPMENT FY98 EQUIPMENT FY99 EQUIPMENT FY01 EQUIPMENT FY02 EQUIPMENT FY03 EQUIPMENT

0.342 1.990 0.737 3.165

1.446 0.000

13

Total

g

0.000

13

0.000 0.000

9

7.680

55

VAR

22

1.879

3

1.717

4

1.207

4

1.089

0.798

0.750

4

090.0

9

0.180

TOTAL INSTALLATION COST

TO COMPLETE

	FY 1996		FY	FY 1997			FY 1998	86	$\dashv$	FY 1999	666			FY?	FY 2000		-	FY 20	2001		F	FY 2002	20		FY:	FY 2003		TC		Total
		1	2	3	4	1	2	3	4	1 2	3	4	1	2	3	4	1	2	3	4	1 2	2 3	4	-	2	3	4			
Z																														
FY96 & PR	-	0	0	0	4	2	7	0	0 0	0	0	2																		13
			7																											2
									2	0	0	1	0	1	0	0														4
													0	3	0	0	0	ж	0	0										9
																	0	0	1	0	0 0	1	0							2
				_																	0 0	3	0	0	0	3	0			9
_																												_	6	6
																												1	13	13
OUT																														
FY96 & PR		0	-	0	0	4	0	7	0 2	0	0	2	2	0	0	0														13
				_			2																							2
									0	0 (	0	3	0	0	1	0														4
													0	0	3	0	0	0	3	0										9
																	0	0	0	_	0 0	0 (								2
																					0 0	0 (	3	0	0	0	3			9
																													6	6
_																												_	13	13

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Page No 12 Exhibit P-3a, Individual Modification

> 2 FY97 KITS NEEDS NO INSTALL FUNDING 1 FY99 KITS NEEDS NO INSTALL FUNDING

NR-1 MODELS OF SYSTEMS AFFECTED:

TYPE MODIFICATION:

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

DESCRIPTION/JUSTIFICATION:

SUBMARINE NR-1- HJ020

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

RDT&E PROCUREMENT	Qty 8 6 1.10	0 12	ky \$ 8	Qty 8 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	52	Qty \$ 3 1.3	λ. λ. λ. λ. λ. λ. λ. λ. λ. λ. λ. λ. λ. λ	ŏ	FY 2002 y \$	Oty P	FY 2003 ty \$	Qty	<i>\$</i>	Total Otty	tal
\$ Qiv			3.							Qty	\$	Qty	\$	Qty	
			1.146		1.225										<del>≶</del>
			1.146		1.225										
							0.000	0 00	0.000	0	0.000	VAR	VAR	31	5.950

P-1 Shopping List Item No 19

Page No 13 Exhibit P-3a, Individual Modification

MODELS OF SYSTEMS AFFECTED:

NR-1 HJ020

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

VARIOUS

ADMINISTRATIVE LEADTIME:

VARCurrent Year: Current Year:

> CONTRACT DATES: DELIVERY DATE:

VARVARMONTHS

VARVARBudget Year 1:

Budget Year 2:

VAR MONTHS

PRODUCTION LEADTIME:

VAR

VAR

Budget Year 2:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS Budget Year 1:

									(\$ in MI	(\$ in MILLIONS)												
Cost:	Pri	Prior Years	FY	FY 1996	FY 1997	2661	FY 1998	866	FY 1999	66	FY 2000	00	FY 2001		FY 2002		FY 2003	03	TC		Total	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
96 EQUIPMENT AND PRIOR			3	0.410	9	0.141															6	0.551
97 EQUIPMENT							5	0.691	1 0	0.103											9	0.794
98 EQUIPMENT									7 0	0.700											7	0.700
99 EQUIPMENT											5 (	0.187									5	0.187
00 EQUIPMENT													3	0.517							3	0.517
01 EQUIPMENT																						
02 EQUIPMENT																						
03 EQUIPMENT																						
COMPLETE																						
JAT INSTALLATION COST			3	0.410	9	0.141	5	0.691	8 0	0.803	5 (	0.187	3	0.517	0 0	0.000	0 (	0.000	0	0.000	30	2.749

	FY 1996		FY	FY 1997		L	FY 1998	86	I	FY 1999	66		I	FY 2000	00.		FY	FY 2001	_		FY 2002	3002		F	FY 2003	13	TC	Total
		1	2	3	4	1	2 3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1 2	2 3	4		
Z																												
FY96 & PR		3	0	3	3																							6
797						3	2 0	0	_	0	0	0																9
X98									7	3	2	0																7
499													-	3	1 0													S
Y00																2	-	0	0									33
Y01																												0
Y02																												0
Y03																												0
OUT																												
FY96 & PR		3 0	0	3	3																							6
797						3	2 0	0	_	0	0	0																9
86A									2	3	2	0																7
499													-	3	1 0													S
Y00																2	-	0	0									33
FY01																												0
Y02																												0
FY03																												•

P-1 Shopping List Item No 19

Exhibit P-3a, Individual Modification

Exhibit P-3a, Individual Modification

TURTLE DSV-3/SEA CLIFF DSV-4

TYPE MODIFICATION:

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

DESCRIPTION/JUSTIFICATION:

MODELS OF SYSTEMS AFFECTED:

DEEP SUBMERGENCE VEHICLES - HJ050

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

							-	FINANCIAL PLAN: (TOA, \$ in MILLIONS)	L PLAN	I: (TOA, \$	in MILLI	ONS)										
RDT&E PROCUREMENT	Pri	Prior Years		FY 1996	FY	FY 1997	FY 1998	866	FY 1999	666	FY 2000	000	FY 2001	101	FY 2002	2	FY 2003	13	TC		Total	tal
	Qty	<b>∻</b>	Qty	\$ 8	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<del>\$</del>	Qty	\$	Qty	\$	Qty	\$	Qty	\$
QUANTITY																						
INSTALLATION KITS	2	0.211	1 2	1.220	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0.0	0.000	0 0	0.000 v	VAR	VAR	4	1.431
INSTALLATION KITS																						
NONRECURRING																					ļ	
EQUIPMENT																					ļ	
EQUIPMENT NONRECURRING																					ļ	
ENGINEERING CHANGE																					ļ	
ORDERS																						
DATA																					ļ	
TRAINING EQUIPMENT																					ļ	
SUPPORT EQUIPMENT																					ļ	
OTHER																						
INTERIM CONTRACTOR																						
SUPPORT																						
					P-1 Sho	P-1 Shopping List	Item No 19	o 19								Pag	Page No 15					

Exhibit P-3a, Individual Modification

Exhibit P-3a, Individual Modification (Continued)

MODELS OF SYSTEMS AFFECTED:

TURTLE DSV-3/SEA CLIFF DSV-4 - HJ050

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

VARIOUS

MONTHS

VAR

ADMINISTRATIVE LEADTIME:

CONTRACT DATES: DELIVERY DATE:

Current Year: Current Year:

Budget Year 1:

VAR VAR

 ${\rm VAR}$ 

MONTHS

VAR

PRODUCTION LEADTIME:

VAR Budget Year 2: Budget Year 2:

VAR

.261

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS VARBudget Year 1:

									(\$ in N	(\$ in MILLIONS)	_										
Cost:	Pric	Prior Years	FY	FY 1996	FY	FY 1997	FY 1998	866	FY 1999	666	FY 2000	000	FY 2001	F	FY 2002	FY 2003	03	TC		T	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty	
FY96 EQUIPMENT AND PRIOR			1	0.369	1	0.242	2	0.650												4	1.2
FY97 EQUIPMENT																					
FY98 EQUIPMENT																					
FY99 EQUIPMENT																					
FY00 EQUIPMENT																					
FY01 EQUIPMENT																					
FY02 EQUIPMENT																					
FY03 EQUIPMENT																					
TO COMPLETE																					
TOTAL INSTALL ATTON COST			,	0360	1	0.242	0 650		0	0000 0 0000 0	0		0000		0000	0 0	000 0 0 000 0	0	000	4	1 2

	FY 1996	_	FY	FY 1997	٦	щ	FY 1998	<sub>∞</sub>	ı,	FY 1999	_	┪	Ŧ	FY 2000	0		FY	FY 2001			FY 2002	3002	٦	т	FY 2003	03	1	TC	Total	
		1	2	3	4	1	2 3	4	1	2	3	4	1 2	2 3	4	-	2	3	4	1	2	3	4	_	2	3 4	4			
Z																														
₹96 & PR	Ţ	1 1	0	0	0	7	0 0	0																					4	
26 Az																													0	
86 Å-																													0	
FY99																													0	
00٨-																													0	
·Y01																													0	
Y02																													0	
Y03																													0	
OUT																														
'Y96 & PR	Ţ	1 0	-	0	0	0	2 0	0																					4	
76Y																													0	
86Y																													0	
499																													0	
Y00																													0	
Y01																													0	
Y02																													0	
Y03																													0	

P-1 Shopping List Item No 19

Exhibit P-3a, Individual Modification

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

Exhibit P-3a, Individual Modification

MODIFICATION TITLE: TYPE MODIFICATION: TETHERED UNMANNED WORK VEHICLE SYSTEM MODELS OF SYSTEMS AFFECTED:

DEEP SUBMERGENCE RESCUE VEHICLES - H1060

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

							FI	FINANCIAL PLAN: (TOA, \$ in MILLIONS)	PLAN:	(TOA, \$ in	n MILLIC	(SNC										
RDT&E PROCUREMENT	Prio	Prior Years	FY	FY 1996	FY i	FY 1997	FY 1998	860	FY 1999	66	FY 2000	00	FY 2001	01	FY 2002	2	FY 2003	03	TC		Total	al
	Qty	\$	Qty	÷	Qty	↔	Qty	↔	Qty	↔	Qty	↔	Qty	49	Qty	<i>∽</i>	Qty	↔	Qty	49	Qty	+
QUANTITY																	$\vdash$					
INSTALLATION KITS	3	0.030	1	0.297	2	1.200	1	1.343	5 1	1.568	2 1	1.500	1	1.487	1.5	1.540	1 1	1.542	VAR	VAR	17	10.507
INSTALLATION KITS																						
NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE																						
ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
INTERIM CONTRACTOR																						
SUPPORT																						
					P-1 Shop	P-1 Shopping List	Item No 19	19								Pa	Page No 17					

Exhibit P-3a, Individual Modification

TETHERED UNMANNED WORK VEHICLE SYSTEM-HJ060

VARIOUS

MONTHS

VAR

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

MODELS OF SYSTEMS AFFECTED:

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

CONTRACT DATES: DELIVERY DATE:

Current Year:

Budget Year 1: Budget Year 1:

VAR VAR

Current Year:

VAR

VAR

Budget Year 2:

MONTHS

VAR

PRODUCTION LEADTIME:

VAR

VAR

Budget Year 2:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

(\$ in MILLIONS)

Cost:	Prio	Prior Years	FY	FY 1996	FY	FY 1997	FY 1998	866	FY 1999	666	FY 2000		FY 2001	1	FY 2002		FY 2003		TC		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	\$ Qty	ty \$	Qty	\$
FY96 EQUIPMENT AND PRIOR			1	0.070	2	0.032	1	0.000												4	0.102
FY97 EQUIPMENT							1	0.065	1	0.010										2	0.075
FY98 EQUIPMENT									1	0.010										1	0.010
FY99 EQUIPMENT									1	0.010	4 0	0.030								5	0.040
FY00 EQUIPMENT													2 0.4	0.010						2	0.010
FY01 EQUIPMENT															1 0.	0.070				1	0.070
FY02 EQUIPMENT																1	0.010	10		1	0.010
FY03 EQUIPMENT																		1	VAR	.R 1	0.000
TO COMPLETE																				0	0.000
TOTAL INSTALLATION COST			1	0.070	2	0.032	2	0.065	3	0.030	4 0	0.030	2 0.0	0.010	1 0.	0.070	0.010	10 1	VAR	.R 17	0.317

	FY 1996		FY 1997	1997		Н	FY 1998	80		FY 1999	666			FY?	FY 2000		-	FY 2001	100		H	FY 2002	2		FY	FY 2003		TC	Total
		1	2	3	4	1	2 3	4	-	2	3	4		2	3	4	-	2	3	4	1 2	3	4	1	2	3	4		
Z																													
FY96 & PR	1	1 0	2	0	0																								3
FY97						1	0 0	0																					-
FY98								_	0	7	0	0																	3
FY99													0	5	0	0													S
FY00																	0	2	0	0									2
FY01																					0	0	0						-
FY02																								0	_	0	0		1
FY03																												1	-
OUT																													
FY96 & PR		П	0	2	0																								8
FY97					_	0	0	0																					П
FY98									-	2	0	0																	3
FY99													0	0	5	0													5
FY00																	0	0	2	0									2
FY01																					0 0		1 0						1
FY02																								0	0	-	0		_
FY03						_																						-	-

P-1 Shopping List Item No 19

Exhibit P-3a, Individual Modification

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Exhibit P-3a, Individual Modification

SRC
CTE
STEMS
MODEL

TYPE MODIFICATION:

MODIFICATION TITLE: DEE

JEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

DESCRIPTION/JUSTIFICATION: St

SUBMARINE RESCUE CHAMBER - HJ080

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

							H	FINANCIAL PLAN: (TOA, \$ in MILLIONS)	PLAN: (	TOA, \$ in	MILLIO,	NS)										
RDT&E PROCUREMENT	Pr	Prior Years	FY	FY 1996	FY 1997	266	FY 1998	86	FY 1999	66	FY 2000	0.	FY 2001	11	FY 2002	2	FY 2003	13	TC		Total	tal
	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	<b>∞</b>	Qty	<b>∽</b>	Qty	<i>s</i>	Qty	\$	Qty	<i>s</i>	Qty	<del>\$</del>	Qty	<del>\$</del>	Qty	↔
QUANTITY																						
INSTALLATION KITS			3	0.323	0	0.000	1 (	0.225	0 0.	0.000	0 0	0.000	0 0	0.000	0.0	0.000	0 0	0.000	VAR	VAR	4	0.548
INSTALLATION KITS																						
NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE																						
ORDERS																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
INTERIM CONTRACTOR																						
SUPPORT																						
	Ш																					

Exhibit P-3a, Individual Modification

P-1 Shopping List Item No 19

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DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP) MODIFICATION TITLE: SRC - HJ080 MODELS OF SYSTEMS AFFECTED:

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

VARIOUS MONTHS VAR ADMINISTRATIVE LEADTIME:

Current Year: CONTRACT DATES: DELIVERY DATE:

Current Year:

Budget Year 1: Budget Year 1:

VARVAR

VARVAR

VAR Budget Year 2:

MONTHS

VAR

PRODUCTION LEADTIME:

VAR Budget Year 2:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

(\$ in MILLIONS)

										(Chromatin de												
Cost:	Prio	Prior Years	FY	FY 1996	FY 19	1661	FY 1998	866	FY 1999	666	FY 2000	000	FY 2001	_	FY 2002		FY 2003	003	JL		Total	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY96 EQUIPMENT AND PRIOR			3	0.0																	3	0.000
FY97 EQUIPMENT																					0	0.000
FY98 EQUIPMENT							1	0.0													1	0.000
FY99 EQUIPMENT																					0	0.000
FY00 EQUIPMENT																					0	0.000
FY01 EQUIPMENT																					0	0.000
FY02 EQUIPMENT																					0	0.000
FY03 EQUIPMENT																					0	0.000
TO COMPLETE																					0	0.000
TOTAL INSTALLATION COST			3	0.000	0	0.000	1	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	4	0.000

Total			33	0	_	0	0	0	0	0		0	33	0	_	0	0	0	0
TC																			
	4																		
003	3																		
FY 2003	2																		
	1																		
	4																		
FY 2002	3																		
FY?	2																		
	1																		
	4																		
FY 2001	3																		
FY	2																		
	1																		
0	4																		
FY 2000	3																		
FY	2																		
	1																		
	4																		
666	3														-				
FY 1999	2																		
1	1																		
8	4																		
FY 1998	3																		
FY	2				1														
	1																		
7	4												2						
FY 1997	3																		
FY	2												1						
	1		8																
FY 1996																			
		Z	FY96 & PR	FY97	FY98	FY99	FY00	FY01	FY02	FY03	OUT	FY96 & PR	FY97	FY98	FY99	FY00	FY01	FY02	FY03

P-1 Shopping List Item No 19

Page No 20 Exhibit P-3a, Individual Modification

MODELS OF SYSTEMS AFFECTED:

ADS

TYPE MODIFICATION:

ATION:

MODIFICATION TITLE:

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

DESCRIPTION/JUSTIFICATION:

ATMOSPHERIC DIVING SUIT (NEWTSUIT) - HJ090

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

							Щ	FINANCIAL PLAN: (TOA, \$ in MILLIONS)	L PLAN:	(TOA, \$ ii	n MILLIC	(SNC										
RDT&E PROCUREMENT	Prior	Prior Years	FY	FY 1996	FY	FY 1997	FY 1998	866	FY 1999	66t	FY 2000	00	FY 2001	01	FY 2002	2	FY 2003	3	JC		Total	al
	Qty	↔	Qty	↔	Qty	<del>\$</del>	Qty	↔	Qty	↔	Qty	↔	Qty	↔	Qty	\$	Qty	\$	Qty	\$	Qty	€
QUANTITY																						
INSTALLATION KITS*			0	0.000	0	0.000	1	0.125	3 (	0.150	4 0	0.175	7 0	0.200	5 0.2	0.225	2 0.2	0.250 V	VAR	VAR	22	1.125
INSTALLATION KITS																						
NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE																						
ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
INTERIM CONTRACTOR																						
SUPPORT																						
					P-1 Sho	P-1 Shopping List	Item No 19	o 19								Pag	Page No 21					

Exhibit P-3a, Individual Modification

DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

MODIFICATION TITLE:

MODELS OF SYSTEMS AFFECTED:

ADS - HJ090

INSTALLATION INFORMATION:

METHODS OF IMPLEMENTATION:

VARIOUS

MONTHS

VAR

ADMINISTRATIVE LEADTIME: CONTRACT DATES: DELIVERY DATE:

VAR VAR Current Year: Current Year:

Budget Year 1: Budget Year 1:

VAR

 ${\rm VAR}$ 

Budget Year 2:

VAR MONTHS

PRODUCTION LEADTIME:

VAR Budget Year 2:

VAR

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

NOT APPLICABLE, DSSP EQUIPMENTS ARE ALL MATURE SYSTEMS

(\$ in MILLIONS)

Cost:	Prio	Prior Years		FY 1996	Ē	FY 1997	FY	FY 1998	FY	FY 1999	FY 2000	0003	FY 2001	_	FY 2002		FY 2003	003	TC	r)	Ţ	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY96 EQUIPMENT AND PRIOR																					0	0.000
FY97 EQUIPMENT																					0	0.000
FY98 EQUIPMENT																					0	0.000
FY99 EQUIPMENT																					0	0.000
FY00 EQUIPMENT																					0	0.000
FY01 EQUIPMENT																					0	0.000
FY02 EQUIPMENT																					0	0.000
FY03 EQUIPMENT																					0	0.000
TO COMPLETE																					0	0.000
TOTAL INSTALLATION COST			0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000

	FY 1996		FY 1997	997	4	FY	FY 1998		F	FY 1999	_	$\dashv$	FY	FY 2000	0		FY 2001	2001		I	FY 2002	02		FY	FY 2003		$^{\rm TC}$	Total	
		1	2	3	4	1 2	3	4	1	2	3	4	1	3	4	1	2	3	4	1	2 3	3 4	1 1	2	3	4			
Z																													
2 PRIOR																												0	
																												0	
FY98						_																						-	
									-	_	-																	3	
												_		_	-													4	
																2	2	2	П									7	
																				2	-		_					5	
																							1	1				2	
OUT																													
PRIOR																												0	
																												0	
FY98																												0	
																												0	
																												0	
																												0	
																												0	
																												0	

Exhibit P-3a, Individual Modification

I. EXCEPT FOR FY98 HARDWARE PROCUREMENT ADS PROGRAM IS NOT EXPECTED TO REQUIRE INSTALLATION FUNDING.

		BUDGET	ITEM JUSTIF	ICATION SHE	ET		DATE:	
		P-40					FEBRUA	ARY 1997
APPROPRIATION/BUDG	SET ACTIVITY	/			D_1 ITEM N	IOMENCLATURE		
OTHER PROCUREN						EEPING EQUII		)
<b>BA-1: SHIPS SUPP</b>	ORT EQUIP	PMENT				Line Item	#097500	
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)								
,	\$0.1	\$4.0	\$4.9	\$0.4	\$0.7	\$0.4	\$0.4	\$0.4

#### ITEM DESCRIPTION/JUSTIFICATION:

Provide systems, subsystems, and engineering change kits for minesweeping and mine neutralization systems used by the surface MCM force. Systems and equipments are used for magnetic, acoustic, and mechanical type minesweeping systems, plus the AN/SLQ-48 (MNS) for mine neutralization. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with specified requirements.

SLQ-48 (UPGRADE) (UQ013) - Funding is to procure retrofit kits for the SLQ-48 MNS and Handling System to improve vehicle maneuverability and system interoperability.

MAGNETIC SWEEP CABLES (UQ014) - The Magnetic Minesweeping Cables provide MCM-1 Class ships with the capability of magnetic minesweeping. Types of cables to be procured are S-3, CL-3, and Q3.

PRODUCTION ENGINEERING (UQ830) - Production Engineering in support of the above procurements. This includes conduct of first article tests, factory acceptance tests, and other production support efforts directly related to delivery of the hardware.

P-1 SHOPPING LIST ITEM NO. 20 PAGE NO. 1

CLASSIFICATION:

		WEAPO P-5	N SYS	STEM COST ANA	ALYSI	S EXHIBIT			DATE: FEBRU	JARY 1997
	PRIATION/BUDGET ACTIVITY PROCUREMENT, NAVY/			P-1 ITEM NOME	NCLAT	URE/SUBHEAD			!	
	SHIPS SUPPORT EQUIPMENT			MINESWEER	PING	EQUIPMENT	(71U	2)		
				•	TOTA	COST IN THOU	SANDS	OF DOLLARS		
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	MINE WARFARE, N852									
JQ013	AN/SLQ-48 UPGRADE			59		3,198		4,389		
JQ014	MAGNETIC SWEEP CABLES				11	700	6	398	6	39
JQ830	PRODUCTION ENGINEERING					67		103		
JQ900	CONSULTING SERVICES					40		50		
	TOTAL	<b>,</b>		59		4,005		4,940		39

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			BUDGET PRO	OCUREMENT HIS		PLANNING E	EXHIBIT			DATE	
	ON/BUDGET ACTIVITY			P-5.	P-1 ITEM NOME	ENCLATURE			SUBHEAD	FEBRUA	RY 1997
OTHER PI	ROCUREMENT, NAVY/BA-1: S	SHIPS SUPPORT EQUIF	PMENT		MINESWE	EPING EQU	IPMENT			71UQ	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
UQ014	FY 1997 MAG SWEEP CABLES S3 CL-3	BIW BOSTON, MA	C/FFP C/FFP	NAVSEA NAVSEA	12/96 12/96	5/97 4/97	4 7	80.5 54.0	YES YES	NO NO	
	FY 1998 MAG SWEEP CABLES S3 CL-3	UNKNOWN UNKNOWN	C/FFP C/FFP	NAVSEA NAVSEA	12/97 12/97	5/98 4/98	2 4	79.0 60.0	YES YES	NO NO	
	FY 1999 MAG SWEEP CABLES S3 CL-3	UNKNOWN UNKNOWN	C/FFP C/FFP	NAVSEA NAVSEA	12/98 12/98	5/99 4/99	2 4	78.5 60.0	YES YES	NO NO	
REMARKS											

**REMARKS** 

PAGE NO. 3

ı	REQUIREMENTS ST	TUDY - NOT-INST	ALLED NONCO	DNSUMABLES P-23B			DATE	FEBRUARY 1997
PPROPRIATION/BUDGET ACTIVITY THER PROCUREMENT, NAVY/BA-1:	SHIPS SUPPORT EQUI	PMENT		P-1 ITEM NOMENCLATURE MINESWEEPING EQUIPMENT (71U	Q)		I	
ITEM/PROJECT UNIT	TOTAL IO / REQUIREMENT	QUANTITY ON HAND &	QUANTITY IN USE	QUANTITY DUE IN WITH FY 96	QUANTITY DUE IN WITH FY 97	PLANNED BUDGET YEARS	BALANCE	PHASING RATIONALE
		NOT IN USE		& PRIOR FUNDS	PROGRAM FUNDS	PROCUREMENT 98 99		
MAGNETIC SWEEP CABLES S3 CL-3	28 28	0 0	0 0	0 0	4 7	2 2 4 4	20 13	FUNDING CONSTRAINTS FUNDING CONSTRAINTS
PST CODE: UQ014 GNETIC SWEEP CABLES R EACH CABLE TYPE, E FOR EACH MCM SHIP (14) D 14 READY-FOR-ISSUE THE SUPPLY SYSTEM.  TAL = 28 EACH								

P-1 SHOPPING LIST PAGE NO. 4

ITEM NO. 20

CLASSIFICATION:

		BUDGET P-40	ITEM JUST	TIFICATION	SHEET		DATE:	ARY 1997
<b>APPROPRIATION</b>	ON/BUDGE	T ACTIVIT	Y		P-1 ITEM	<b>NOMENCL</b>	ATURE	
OTHER PROCU						_	_	_
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$33.8	\$28.8	\$51.1	\$84.6	\$75.1	\$55.3	\$36.9	\$38.9

This request provides support for all "S" cognizance equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These components will be used to accomplish both shipyard/type commander alterations, fill Fleet requisitions from casualties, attrition, etc. as well as procure allowance items as required by the Consolidated Shipboard Allowance List. The following is a breakout of these items:

HK052 - PERFORMANCE MONITORING PROGRAM - A maintenance concept which entails identifying, acquiring, and analyzing performance data of critical operational SSN ship systems without costly open and inspect methods. The results of this program yield the material condition assessment and operational readiness of deployed submarines on a continuing basis to safely and reliably extend their operating cycles between overhauls. These funds are required to procure specialized support and test equipment (E.G. Thermal Imaging, Vibration Monitoring, Ultrasonic Flowmeter, etc.) essential to obtaining (non-inclusively) accurate technical data for engineering analysis.

HK830 - PRODUCTION ENGINEERING (N87, N86, AND N88) - The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical manuals, PMS, Level III production drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews. This work can be accomplished by NAVSSES as the in service Engineering agent, other Naval activities or contractors as appropriate.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

**CLASSIFICATION:** 

	BUDGET ITEM JUSTIFICATION SHEET		DATE:
	P-40A		
			<b>FEBRUARY 1997</b>
APPROPRIATION/BUDGET AC	TIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY	/ BA 1: SHIPS SUPPORT EQUIPMENT	HM&E ITEMS UNDER \$2 MILI	LION (81HK) (0980)

HK067 - SEMMSS (ASSESSMENT OF EQUIPMENT CONDITION) - This supports the CNO mandated program to provide engineering repair decisions for the near term availabilities by executing condition assessment of all shipboard systems. These funds are for the initial outfitting and periodic replacement of the AEC Performance Monitoring Team's Test, Measurement and Diagnostic Equipment (TMDE) Inventories. The TMDE Inventories are comprised of electrical, electronic mechanical and electromechanical test equipment used to measure operating parameters of shipboard systems/equipment's. To fully support the program, each team (5 teams) will have TMDE inventories of 400 individual items. Many of these items are specialized, high-technology, high costs, instruments not O&M,N supportable. Applicable Ships in FY 90 were DD-933 Class (ALL), CG-47 Class, (ALL) FFG-7 Class. The increase in FY 92/93 results from the expansion of the program to all surface ship vice the four ship classes supported in FY 90. The increase provides the AEC PMT's with the TMDE needed to perform equipment condition assessment on 27 ship classes (300 ships). Examples of the new and replacement TMDE are: moisture analyzer, hydrometer, oxygen leak detector, flowmeter, vibration monitoring equipment's, anameter, electrical/motorized megger, etc.

HK213 - LANDING CRAFT AIR CUSHION (LCAC) - Beginning in FY 94, the HK213 line will fund material procurement and shipalt installation and design for the LCAC Fleet Modernization Program (FMP). Funds in this line are for modifications on the craft to enhance military capabilities directed by CNO or technical characteristics when warranted by reason of safety, reliability and/or cost effectiveness. Advanced technology used in LCAC demands constant and continual modifications to ensure proper mission performance and maintain craft configuration to those new craft. There is a direct relationship between the number of LCAC both delivered and planned and the funding in the program line. In addition, funding will also support modification on two Full Mission Trainers (FMT). Total planned inventory is 84; 67 craft have been delivered to date with approximately one craft being delivered each month.

HK261 - MACHALTs - The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment or systems and have limited system ramifications. The MACHALT program enables changes to be accomplished in a more expeditious manner and eliminate them from the formal SHIPALT process. MACHALTs are most effective for multi-class alterations. One MACHALT can replace several SHIPALTs in the system.

HK122 -363 TON AIR CONDITIONER - This program procures and installs Air Conditioning Plants on CVN-68 Class. It provides the necessary Air Conditioning capacity to keep pace with installed and planned installations of systems and equipment requiring Air Conditioning or chilled water for operation. This program is part of the aircraft carrier critical distributive systems program.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

CLASSIFICATION:

### **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40A		
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT	HM&E ITEMS UNDER \$2 MILLIO	N (81HK) (0980)

HK5IN - INSTALLATION OF EQUIPMENT - Funding is for the installation of equipment including Fleet Modernization Program Installation, installation of training equipment, and installation of equipment in other shore facilities.

HK068 - COMMAND AND CONTROL UPGRADES - Modifications to enhance extensive communications, and support for Fleet Commanders and embarked staff.

HK262, HK265, HK265, HK266, LHA MIDLIFE UPGRADE - REVERSE OSMOSIS, BALLAST//DEBALLAST, UPGRADE CHT SYSTEMS, STAR ROTARY COMPRESSORS, 300 TON A/C PLANT - This program supports material procurement and installation of engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program. This program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFACE initiative to resolve maintenance deficiencies, increase readiness and reduce future maintenance costs enabling the ships to reach their service life. Joint Fleet Priority # 600 as assigned by OPNAV; NAVSEA, TYPE COMMANDER and LHA Mid Life Management team, will procure and install CHT Systems Upgrades, Star Rotary Compressors, and 300 Ton A/C Plant, Reverse Osmosis Desalination units.

HKDSA DESIGN SERVICES ALLOCATION - The Budget reflects the transfer of design services into the appropriate equipment P-1 line item in accordance with full funding policy FY 98 & out.

HK214, FUEL OIL PURIFIERS - These self-cleaning purifiers are critical to fuel cleanliness for Gas Turbine operation and will replace existing ones that are no longer repairable or supportable by the original manufacturer.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

3

CLASSIFICATION:

**UNCLASSIFIED** 

21

#### UNCLASSIFIED

TEM COST ANALYSIS								DATE:	
	DDOCDAM C	OCT DDE	KDOWN					DATE:	
	PROGRAM C	USIBKEA	KDOWN					FERRIIAE	V 1997
TION/BUDGET ACTIVITY			P-1 ITEM NOMENO	LATURE/S	SUBHEAD			LDRUAN	1 1091
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
OCUREMENT NAVY BA 1: SHIPS SUPPORT	EQUIPMENT		HM&E ITEMS UND	ER \$2 MILI	LION (81HK) (0980	))			
							LLARS		
ELEMENT OF COST	IDENT		FY 1996		FY 1997		FY 1998		FY 1999
	CODE								
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
NOT EXPENDITONADY WAREARE	1						<del> </del>		1
NOS EXPENDITONART WARFARE							ĺ		
MOD KITS LAND CRAFT CUSHION	Α		6.571		4.429		0		16,219
F. O. PURIFIER	A		1,200		-,				10,210
CIRC PUMP MOTORS	Α		·					2	120
REVERSE OSMOSIS	Α					4	1,800		
UPGRADE CHT SYSTEMS	Α			3	507	3	578	3	600
STAR ROTARY COMPRESSORS	Α			4	831	4	820	4	860
300 TON AC PLANTS	Α			1	961	1	1,000	1	1,000
						3	653		
CARGO HANDLING MONORAIL	Α							1	490
SUBTOTAL N85			7,771		6,728		4,851		19,289
SURFACE N86									
SEMMSS	A		1,092		800		859		788
COMMAND & CONTL UPGRADES	Α					6	6,200		
MACHALTS	Α		1,325		6,191		7,500		7,195
PRODUCTION ENGINEERING	Α		308		240		259		243
SUBTOTAL N86			2,725		7,231		14,818		8,226
	CUREMENT NAVY BA 1: SHIPS SUPPORT  ELEMENT OF COST   N85 EXPENDITONARY WARFARE  MOD KITS LAND CRAFT CUSHION F. O. PURIFIER CIRC PUMP MOTORS REVERSE OSMOSIS UPGRADE CHT SYSTEMS STAR ROTARY COMPRESSORS 300 TON AC PLANTS BALLAST DEBALLAST CARGO HANDLING MONORAIL  SUBTOTAL N85  SURFACE N86  SEMMSS COMMAND & CONTL UPGRADES MACHALTS PRODUCTION ENGINEERING	TION/BUDGET ACTIVITY  OCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT  ELEMENT OF COST  IDENT CODE   N85 EXPENDITONARY WARFARE  MOD KITS LAND CRAFT CUSHION A.F. O. PURIFIER A.CIRC PUMP MOTORS REVERSE OSMOSIS A.UPGRADE CHT SYSTEMS STAR ROTARY COMPRESSORS A.300 TON AC PLANTS BALLAST DEBALLAST CARGO HANDLING MONORAIL  SUBTOTAL N85  SURFACE N86  SEMMSS COMMAND & CONTL UPGRADES A MACHALTS A PRODUCTION ENGINEERING A	TION/BUDGET ACTIVITY  OCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT  ELEMENT OF COST  IDENT CODE  QTY   N85 EXPENDITONARY WARFARE  MOD KITS LAND CRAFT CUSHION F. O. PURIFIER ACIRC PUMP MOTORS AREVERSE OSMOSIS AUPGRADE CHT SYSTEMS STAR ROTARY COMPRESSORS A300 TON AC PLANTS BALLAST DEBALLAST CARGO HANDLING MONORAIL  SUBTOTAL N85  SURFACE N86  SEMMSS COMMAND & CONTL UPGRADES AAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAACHALTS AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	PROGRAM COST BREAKDOWN  TION/BUDGET ACTIVITY  OCUREMENT NAVY BA 1: SHIPS SUPPORT EQUIPMENT  ELEMENT OF COST  IDENT CODE  TY 1996  QTY  TOTAL COST  N85 EXPENDITONARY WARFARE  MOD KITS LAND CRAFT CUSHION F. O. PURIFIER A 1,200  CIRC PUMP MOTORS A REVERSE OSMOSIS A UPGRADE CHT SYSTEMS STAR ROTARY COMPRESSORS A 300 TON AC PLANTS BALLAST DEBALLAST CARGO HANDLING MONORAIL  SUBTOTAL N85  SURFACE N86  SEMMSS COMMAND & CONTL UPGRADES A 1,092 A 1,325 PRODUCTION ENGINEERING A 308	PROGRAM COST BREAKDOWN	PROGRAM COST BREAKDOWN   P-1 ITEM NOMENCLATURE/SUBHEAD	Program Cost Breakdown	P-1   ITEM NOMENCLATURE/SUBHEAD	PROGRAM COST BREAKDOWN

P-1 SHOPPING LIST

Exhibit P-5 Weapon System Cost Analysis
CLASSIFICATION:

ITEM NO. 21 PAGE NO.

WEAPON SYSTEM C	OST ANALYSIS								DATE:	
EXHIBIT (P-5)		PROGRAM COST B	REAKDOWN							
				1					FEBRUARY	1997
APPROPRIATION/B	UDGET ACTIVITY			P-1 ITEM NOMEN	CLATURE/SU	BHEAD				
OPN BA 1: SHIPS	S SUPPORT EQUIPMENT			HM&E ITEMS UND	DER \$2 MILLI	ON (81HK) (0980)				
						IN THOUSANDS OF DO	LLARS			
					•				,	
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
CODE		CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
									<b></b>	
	OUDMADINES (MOT)									
	SUBMARINES (N87)									
HK052	PERFORMANCE MONITOR	Α		243						
	INSURANCE SPARES									
	SUBTOTAL N87			243						
	AIRCRAFT CARRIERS (N88)									
	AIRCRAFT CARRIERS (NOO)									
HK830	PRODUCTION ENGINEERING	A								
HK122	363 TON A/C PLANT	A			1	1,367	1	1,301	2	3,158
	SUBTOTAL (N88)					1,367		1,301		3,158
	(,					,,,,,,		1,551		,,,,,
	TOTAL EQUIPMENT			10,739		15,326		20,970		30,673
HK5IN	INSTALLATION OF EQUIPMENT			\$23,013		\$13,476		\$24,254		\$46,026
	"K" ALT/"D" ALT			¥=5,512		, , , , ,		<b>V</b> = 1,= 1		***************************************
HKDSA	DESIGN SERVICES ALLOCATION							5,835		7,853
	SUBTOTAL INSTALLATION			23,013		13,476		30,089		53,879
	ORAND TOTAL			600 750		<b>*</b> 00.000		<b>*</b> 54.050		\$24.550
	GRAND TOTAL			\$33,752		\$28,802		\$51,059		\$84,552
							L	<u> </u>	<u> </u>	

P-1 SHOPPING LIST

ITEM NO. PAGE NO. Exhibit P-5 Weapons System Cost Analysis CLASSIFICATION:

21

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CLASSIFICAT	TON:	UNCLASSIFIED									
			BUDGET PROC	UREMENT HISTO	RY AND PLA	NNING				DATE	*
				P-5A						FEBRUA	RY 1997
APPROPRIAT	ION/BUDGET ACTIVITY				P-1 ITEM NO	MENCLATURE			SUBHEAD		
OTHER PROC	UREMENT NAVY BA 1:										
	SHIPS SUPPORT EQUIPMENT				HM&E ITEM	IS UNDER \$2 MIL	LION				81HK (0980)
			CONTRACT			DATE OF			SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	UNIT	AVAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY		COST	NOW	REQ'D	AVAILABLE
								(000)			
HK052	PERFORMANCE MONITOR										
	FY 1996	NSWC CARDEROCK, MD	wx	NAVSEA	Jul-96	Jul-97		105,000	N/A		
	FY 1996	GSA	MP	NAVSEA	Jul-96	Aug-97		138,000	N/A		
HK213	LAND CRAFT CUSHION										
	FY 1996	NSWC PANA CITY FL	wx	NAVSEA	Jul-96	Jul-97		265.000	1		1
	FY 1996	SUPSHIP NEW ORLEANS	PD	NAVSEA	Jun-96	Jun-97		524,000	1		1
	FY 1996	NSY PUGET SOUND	WX	NAVSEA	Mar-96	Mar-97		3,333,000			
	FY 1996	NSWC PANA CITY FL	WX	NAVSEA	May-96	May-97		2,209,000			
	FY 1996	TRW	LOE	NAVSEA	Jun-96	Jun-97		240,000			
	FY 1997	SUPSHIP N.O.	PD	NAVSEA	Feb-97	Sep-98		400,000			
	FY 1997	UNKNOWN	LOE	NAVSEA	May-97	May-98		1,800,000			
	FY 1997	NSY PUGET SOUND	WX	NAVSEA	Apr-97	Apr-98		1,929,000			
	FY 1997	UNKNOWN	C/FP	NAVSEA	May-97	May-98		300,000			
	FY 1999	PUGET SOUND NSY	WX	NAVSEA	Feb-99	Feb-00		927,000			
	FY 1999	UNKNOWN	LOE	NAVSEA	Feb-99	Feb-00		496,000			
	FY 1999	UNKNOWN	C/FP	NAVSEA	Feb-99	Jul-00		14,796,000			
1114000	OIDO DUMP MOTOR										
HK260	CIRC PUMP MOTOR	LINIZALOWAL	C/FP	NAVOTA	A 00	A 00		CO 000	VEC	NO	
	FY 1999	UNKNOWN	C/FP	NAVSEA	Apr-99	Apr-00	2	60,000	YES	NO	
HK267	CARGO HANDLING										
	FY 1999	UNKNOWN	C/FP	NAVSEA	Oct-98	Mar-99	1	490,000	YES	NO	
HK266	BALLAST/DEBALLAST										
HK200	FY 1998	UNKNOWN	C/FP	NAVSEA	May-98	May-99	3	217,666	YES	NO	
	111330	CHROWN	0/11	NAVOLA	may-30	Way-33	,	217,000	120	140	
REMARKS											
				P-1 SHOPPING	G LIST				CLASSIFICA	TION:	
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CLASSIFICATION:		UNCLASSIFIED										
			BUDGET PR	OCUREMENT HIS	ORY AND PLAN	NING				DATE		
				P-5A							FEBRUARY	1997
APPROPRIATION/E	BUDGET ACTIVITY				P-1 ITEM NOME	NCLATURE			SUBHEAD			
OTHER PROCURE	MENT NAVV RA 1.								81HK (0980)			
OTHER TROODRE	SHIPS SUPPORT EQUIPMI	ENT			HM&E ITEMS U	NDER \$2 MILLION	J		011111 (0000)			
			CONTRACT			DATE OF	1		SPECS	SPEC	IF YES	
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	UNIT	AVAILABLE	REV	WHEN	
CODE	FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY		COST	NOW	REQ'D	AVAILABLE	
HK122	363 TON A/C PLANTS FY 1997	UNKNOWN	C/FP	NAVSEA	Aug-97	Aug-99	1	1.367.000	YES	NO		
	FY 1997 FY 1998	UNKNOWN	OPT	NAVSEA	Feb-98	Feb-00	1	1,301,000	YES	NO		
	FY 1999	UNKNOWN	OPT	NAVSEA	Feb-99	Feb-00	2	1,579,000	YES			
HK067	SEMMSS				1					1		
	FY 1996	NSWC PHILA, PA	PX	NAVSEA	Apr-96	Apr-97	N/A	1,092,000	N/A			
	FY 1997	NSWC PHILA, PA	WR	NAVSEA	Dec-96	Dec-97	N/A	800,000	N/A			
	FY 1998	UNKNOWN	WX	NAVSEA	Mar-98	Mar-99	N/A	859,000	N/A			
	FY 1999	UNKNOWN	WX	NAVSEA	Mar-99	Mar-00	N/A	788,000	N/A			
HK261	MACHALTS											
	FY 1996	NSWC PHILA, PA	wx	NAVSEA	Apr-96	May-97	N/A	1,325,000	N/A			
	FY 1997	NSWC PHILA, PA	WR	NAVSEA	Dec-96	Dec-97	N/A	6,191,000	N/A			
	FY 1998	NSWC PHILA, PA	WX	NAVSEA	Mar-98	Mar-99	N/A	7,500,000	N/A			
	FY 1999	NSWC PHILA, PA	wx	NAVSEA	Feb-99	Feb-00	N/A	7,195,000	N/A			
HK263	UPGRADE CHT SYSTEMS											
HK203	FY 1997	SPCC MECH, PA	RC	NAVSEA	Jul-97	Jul-98	3	169.000	YES			
	FY 1997 FY 1998	SPCC MECH, PA	RC	NAVSEA	Jul-97 Feb-98	Jul-98 Feb-99	3	192.666	YES			
	FY 1999	SPCC MECH, PA	RC	NAVSEA	Feb-99	Feb-99	3	200,000	YES			
		,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HK264	STAR ROTARY											
	FY 1997	UNKNOWN	C/FP	NAVSEA	May-97	May-98	4	207,750	YES			
	FY 1998	UNKNOWN	OPT	NAVSEA	Feb-98	Feb-99	4	205,000	YES			
	FY 1999	UNKNOWN	OPT	NAVSEA	Feb-99	Feb-00	4	215,000	YES			
HK265	300 TON AC PLANTS											
	FY 1997	YORK, YORK, PA	SS/FP	NAVSEA	Jul-97	Jul-98	1	961,000	YES		1	
	FY 1998	UNKNOWN	OPT	NAVSEA	Feb-98	Feb-99	1	1,000,000	YES			
	FY 1999	UNKNOWN	OPT	NAVSEA	Feb-99	Feb-00	1	1,000,000	YES			
HK068 COMN	AND AND CONTROL UPGI	RADE										
	FY 1998	UNKNOWN	C/FP	NAVSEA	Mar-98	Jun-99	6	1,033,333	N/A			
HK262	REVERSE OSMOSIS									1		
	FY 1998	UNKNOWN	C/FP	NAVSEA	Jun-98	Jun-99	4	450,000	YES			
			4,11					100,000				
REMARKS												
	* SEE FUNDING REALIGNN	ENT SHEET										
				D 4 0	HOPPING LIST				CLASSIFICATIO	NI-		
				ITEM NO.	PAGE NO.				CLASSIFICATIO	N.		
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P3A			INDIVIDUAL	L MODIFICA	TION						İ								FEBRUARY	1997	
	: HM&E ITEMS UNDER 2M																				
MODELS OF SYSTEM	AFFECTED: FUEL/OIL PURIFIE	R																			
DESCRIPTION/JUSTIF	FICATION:																				
DEVELOPMENT STAT	TUS/MAJOR DEVELOPMENT MIL	ESTONES:																			
																		TO	TO		
					FY 96													COMP	COMP	TOTAL	
				QTY 8	& PRIOR	QTY	FY 97 QTY	FY 98	QTY	FY 99	QTY FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN	MILLIONS)																				
DOTAF	1 1																			0	
RDT&E	1	1 1	1 1									1	1 1		1						0.0
PROCUREMENT QUANTITY	1 1			1								1	1		1		1			0	0.0
INSTALLATION KITS		1 1	1 1	1	1		1	1 1		1	1	1	1 1		1		1			0	0.0
INSTALLATION KITS																	1			0	0.0
EQUIPMENT	HOHRECURRING		1 1	1	1.2			1 1	1	1	1	1	1 1		1			1		0.0	1.2
EQUIPMENT NONRE	CURRING		1		1.2		1	1			- 1	1	1		1		1		1	0.0	0.0
ENGINEERING CHAN			1 1	1	1			1	1	1		1	1		1					0	0.0
DATA	NGE ORDERO			1				1 1				1	1		1		1		1	0	0.0
TRAINING EQUIPME	NT		1 1	1	1			1	1	1		1	1 1		1					0	0.0
SUPPORT EQUIPMEN		1 1	1 1				1	1			1		1		·		1	1	1	0	0.0
OTHER			1 1	1				1 1		1		1	1 1		1		1	1	1	ō	0.0
INTERIM CONTRACT	TOR SUPPORT	- 1	- 1	- 1				1 1									1	1		0	0.0
III CONTINACT	1011 001 1 0111																				0.0
INSTALLATION OF HA	ARDWARE																				
		+										<u> </u>			<u> </u>						<u> </u>
																				0	0.0
FY96 & PRIOR EQUIP	PMENT			1	0.8															1	0.8
FY97 EQUIPMENT								1									1			0	0.0
FY98 EQUIPMENT				1					1								1		l	0	0.0
FY99 EQUIPMENT		'	- '		,			1 1		,	'	1	1		1		1	1	1	0	0.0
FY 00 EQUIPMENT																	1			0	0.0
FY01 EQUIPMENT		'		,	,				,	,		'								0	0.0
FY 02 EQUIPMENT																					
FY03 EQUIPMENT									1								1			0	0.0
TO COMPLETE		'		,	,				,	,		'								0	0.0
																	1				
TOTAL INSTALLATION	N COST	1	1	1	0.8		0.0	0.0	,	0.0	0.0		0.0		0.0		0.0			1	0.8
TOTAL PROCUREMEN	NT COST				1.2		0.0	0.0		0.0	0.0		0.0		0.0		0.0			0	1.2
TOTAL COST	' '	' '		-	2.0		0.0	0.0	,	0.0	0.0		0.0		0.0		0.0			0	2.0
METHOD OF IMPLEME	ENTATION: CONTRACT MOD					ADMINISTR A	TIVE LEADTIME: 9	-			PRODUCT	ION LEAD	TIME: 12								
CONTRACT DATE:		PRIOR YEAR:	Feb-97	,		CURRENT Y			BUDGET YEAR				BUDGET Y								
PRODUCTION DELIVE	ER DATE:	PRIOR YEAR:	Feb-98		-	CURRENT Y	EAR:		BUDGET YEAR				BUDGET Y	EAR 2:							
INSTALLATION SCHE																					
	INPUT =====>		FY96		FY97		FY98	FY99		FY00	FY01		FY02		FY03		TC				
			1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
	FY 1996 & PRIOR		1																1		
	OUTPUT ====>		FY96		FY97		FY98	FY99		FY00	FY01		FY02		FY03		TC				
			1, 2, 3, 4	_1	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
	FY 1996 & PRIOR		1									,							1		
													1 7		1						
		ITEM	21		AGE						CLASSIFICATION: UN						1				P-3A

LASSIFICATION: UNCLASSIFIED																				
3A	IN	NDIVIDUAL M	IODIFICATIO	ON															FEBRUARY 1	997
ODIFICATION TITLE: HM&E ITEMS UNDER 2M																				
DELS OF SYSTEM AFFECTED: CONSTANT TENS																				
SCRIPTION/JUSTIFICATION: This system, consis																				
gid Inflatable Bost (RIB) handling operations and r	educes top side weight. 1	The system w	vill also allo	w RIB oper	rations in high	er sea stat	es. Installatio	n will be ma	ade on the fo	llowing										
ip classes: FFG-7, CG-47, DD-963, DDG-993. EVELOPMENT STATUS/MAJOR DEVELOPMENT MI	FOTONEC.																то	то		
EVELOPMENT STATUS/MAJOR DEVELOPMENT MI	LESTUNES:							-									10	10		
			FY9	6									_				COMP	COMP	TOTAL	TOTAL
					QTY FY	7 QT	FY 98	QTY	FY 99	QTY	FY 00 C	TY FY 01	QTY	FY 02	QTY	FY 03	QTY	COST		COST
NANCIAL PLAN (IN MILLIONS)			<u> </u>		<u> </u>		11.00	~	11.00	~			<u> </u>		~		~	000.	~	000.
NANCIAE I EAN (IN INICEIONO)			_					-					_							
DT&E		- '	- '				-	1	1 1		· · · · · ·	'	1 1	- '		- '			0	0.0
ROCUREMENT			10				1	1	1 1				1 1						10	0.0
UANTITY		,		- 1	-	- 1	'	1	1	-		'	1	- '	- '	- '			0	0.0
STALLATION KITS			1 :	2.0	1			1	1 1				1 1	1					0	2.0
NSTALLATION KITS NONRECURRING			,					1			,				,	,			0	0.0
QUIPMENT								1								1			0	0.0
QUIPMENT NONRECURRING			,					1			,				,	,			0	0.0
NGINEERING CHANGE ORDERS																			0	0.0
DATA																			0	0.0
RAINING EQUIPMENT																			0	0.0
UPPORT EQUIPMENT																			0	0.0
THER																			0	0.0
NTERIM CONTRACTOR SUPPORT																			0	0.0
STALLATION OF HARDWARE						_		1												
Y96 EQUIPMENT & PRIOR			10	1.5				-											10	1.5
Y96 EQUIPMENT			10	1.5				1											0	0.0
Y97 EQUIPMENT								1	1 1				1 1	- 1					0	0.0
Y98 EQUIPMENT		1	1	1	1		1	1	1 1			1	1 1	1					0	0.0
Y99 EQUIPMENT		- '	- '				-	1	1 1		· · · · · ·	'	1 1	- '		- '			ō	0.0
Y 00 EQUIPMENT			1				1	1	1 1				1 1	1						0.0
FY01 EQUIPMENT			,					1			,			,		,				0.0
Y 02 EQUIPMENT								1											0	0.0
Y03 EQUIPMENT		,										,				,			0	0.0
TO COMPLETE																				
OTAL INSTALLATION COST			10 '	1.5	0 0.0														10	1.5
OTAL PROCUREMENT COST			- 1 3	2.0 3.5	0.0		0.0		0.0		0.0	0.0				0.0		0.0		2.0
OTAL COST			, ;	3.5	0.0		0.0	1	0.0		0.0	0.0				0.0		0.0	1	3.5
ETHOD OF IMPLEMENTATION: AIT				ADI	MINISTRATIVE	LEADTIM	. c MOC	-		DD	ODUCTION LEA	DTIME: 9 MC	NTUC							
ONTRACT DATE:	PRIOR YEAR: Jun-93	- 1			RRENT YEAR:	LEADTIN	. 6 IVIO3	BUDGET	VEAD.	FR	ODUCTION LEA	BUDGET								
RODUCTION DELIVER DATE:	PRIOR YEAR: Mar-94	1	1		RRENT YEAR:		1	BUDGET				BUDGET		1					1	
				30.		-	-												-	
STALLATION SCHEDULE:		,	-	-	-		'	1	1 1		'	- '			-					
INPUT =====>		FY96	F	Y97	FYS	В	FY99		FY00		FY01	FY02	1	FY03	1	TC			1	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<del></del>	1, 2, 3, 4		2, 3, 4	1, 2,		1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3,		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
FY 1996 & PRIOR	10			-, -, ·		<u>,</u>	., 2, 0, 4	-	., _, 0, -		., =, =, =	1, 2, 0,		., _, ,, -	-	., _, 0, 4		10		
11130 411101								1	1 1				1 1	1	1	1		10	1	_
	1 1	-	- 1	- 1	1		1	1	1 1				1					1		
OUTPUT	1 1 1	Evec		V07			FVCC	1	FYOO		EVO	EVee	1	E)/00	1	TO			1	
OUTPUT ====>		FY96		Y97	FYS		FY99		FY00		FY01	FY02		FY03		TC				
EV 1000 A BRIDE		1, 2, 3, 4	1, 2	2, 3, 4	1, 2,	, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4	1, 2, 3,		1, 2, 3, 4	-	1, 2, 3, 4		TOTAL		
FY 1996 & PRIOR		10																10		
						-	1	1	1 1			1	1							
			- 1				1	1	1											
	1 1 1	1	1	- 1	- 1	- 1	1	1	1	1		1	1 7	- 1	1	- 1			1	
								1					11		1				P-:	34

CLASSIFICATION: UNCLASSIFIED																					
P3A MODIFICATION TITLE: HM&E ITEMS UNDER 2M		INDIVIDUAL MODIFICATION		-																FEBRUARY	1997
MODELS OF SYSTEM AFFECTED: STAR ROTARY (LHA N	IIDLIFE UPGRADE)																				
DESCRIPTION/JUSTIFICATION:																					
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILEST	ONES:		FY 96															COMP	COMP	TOTAL	TOTAL
		QTY		QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E PROCUREMENT	1		1	1	1 1		1 1		1	1	1 1		1 1		1		1	1	1	0	0.0
QUANTITY				4		4		4		8										20	0.0
INSTALLATION KITS INSTALLATION KITS NONRECURRING											1									0	0.0
EQUIPMENT			1	1	0.8		0.8		0.9	1	1.7		1 1		1		1	1	1	0	4.2
EQUIPMENT NONRECURRING							, ,													0	0.0
ENGINEERING CHANGE ORDERS DATA				1	1						1 1		1		1					0	0.0
TRAINING EQUIPMENT				1			1 1		1	1	1		1		1			1		0	0.0
SUPPORT EQUIPMENT		1		1	, ,		, ,			ı	1 1				1			1	1	0	0.0
OTHER INTERIM CONTRACTOR SUPPORT	1	1 1	1	1	1				1	1	1		1		1		1		·	0	0.0
INSTALLATION OF HARDWARE FY96 EQUIPMENT																					
FY97 EQUIPMENT	' '	<u> </u>	1	1	1	4	1.3		_	_	1		1		1			1	1	4	1.3
FY98 EQUIPMENT			1	1				4	1.3								1	1		4	1.3
FY99 EQUIPMENT FY 00 EQUIPMENT			1	1	1 1		1 1		1	AP	1.0	8	1.7						1	4	1.9 1.7
FY01 EQUIPMENT			1	1					1	1	1 1	•	1.7		1		1			ő	0.0
FY 02 EQUIPMENT																				_	0.0
FY03 EQUIPMENT TO COMPLETE				1	1		-		-	1	1 1				1		1		1	0	0.0
				1							1 1				1		1			-	1
TOTAL INSTALLATION COST				_	0.0	4	1.3	4	1.3	AP	1.0	12	2.6		1		0.0		0.0	20	6.2
TOTAL PROCUREMENT COST					0.8		0.8		0.9		1.7		0.0				0.0		0.0		4.2
TOTAL COST	1			1	0.8		2.1		2.2	1	2.7		2.6		1		0.0	1	0.0		10.4
METHOD OF IMPLEMENTATION: AIT				ADMINIST	RATIVE LEADTIN	ME: 9 MTHS					PRODUCT	TION LEADTIN	IE: 12								
CONTRACT DATE:	PRIOR YEAR:			CURRENT	YEAR:			BUDGET YEA					BUDGET YEAR				,				
PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE:	PRIOR YEAR:		1	CURRENT	YEAR:		May-98	BUDGET YEA	R: FEB-99	1	1 1		BUDGET YEAR	2: FEB 00	1		1		1		1
INPUT =====>		FY96	FY97	1	FY98		FY99		FY00	1	FY01		FY02		FY03		TC	1	1		1
		1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	TOTAL		
FY 1996 PRIOR FY 1997					4														4		
FY 1998							4				1 1				1				4		
FY 1999 FY 2000				1						1	0040				1		_		4		
FY 2001				+					1		0000								20		
FY 2002																					
FY 2003				1					_	-							1	1			
OUTPUT ====>		FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
FY 1996		1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	TOTAL		
FY 1996			1	1	1 1		4		1	1	1 1				1		1	1	4		1
FY 1998	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							0 0 4 0										4		
FY 1999 FY 2000							_		+	-	1		4 8		1		-	-	4 8		
FY 2001																			20		
FY 2002										1											
FY 2003																					
			1	1							T I				1						
			_	1	ITEM	21		PAGE	10	_							CI ADDIESO.	TION: UNCLA	eoicicn		P-3A
					rrem	41		i AJE	10								- CLASSIFICA	UNCLA	OUIFIED		

CLASSIFICATION: UNCLASSIFIED																							
P3A MODIFICATION TITLE: HM&E ITEMS UI	NDFR 2M		INDIVIDUA	L MODIFICA	TION																FEBRUARY 19	197	
MODELS OF SYSTEM AFFECTED: BAL		E UPGRADE)																					
DESCRIPTION/JUSTIFICATION: DEVELOPMENT STATUS/MAJOR DEVE	EL ODMENT MILESTONES.																			то	то		
DEVELOT MENT OTATOOMIAGON DEVE	LOT MICHT MICEOTOTICS.				FY 96															COMP	COMP	TOTAL	TOTAL
FINANCIAL PLAN (IN MILLIONS)				QTY	& PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
RDT&E				1			1	1		1			1			l	1	-			1	0	0.0
PROCUREMENT QUANTITY				1	1 1		1	1					1				1				1	10	0.0
INSTALLATION KITS				7	1 1			3		1				1		1	1					0	0.0
INSTALLATION KITS NONRECURRING					1 1		1														1	0	0.0
EQUIPMENT EQUIPMENT NONRECURRING				1	1.8		1	1	0.7	1			1			l	1	-			1	0	2.5 0.0
ENGINEERING CHANGE ORDERS				1	1 1		1	1					1				1				1	0	0.0
DATA TRAINING EQUIPMENT				1	1 1		1			ı				l		l	1	1			1	0	0.0
SUPPORT EQUIPMENT					1		1														1	0	0.0
OTHER INTERIM CONTRACTOR SUPPORT		1 1	-	1	1 1		1			1				1		1	1				1	0	0.0
MOTAL LATION OF HARDWARE																							
INSTALLATION OF HARDWARE FY96 EQUIPMENT & PRIOR	-			-		7	1.4			-												7	1.4
FY97 EQUIPMENT FY98 EQUIPMENT																		·				0	0.0
FY99 EQUIPMENT			- 1	1	1 1			1		3	2.8											0	2.8 0.0
FY 00 EQUIPMENT				1			1															. 0	0.0
FY01 EQUIPMENT FY 02 EQUIPMENT																						. 0	0.0
FY03 EQUIPMENT				1			1															0	0.0
TO COMPLETE				1	1 1		1	1		ı			1	ı		I	1	1			1	0	0.0
TOTAL INSTALLATION COST				0	0.0	7	1.4	0.0	0.0	3	2.8	0.0	0.0		0.0		0.0	0	0.0		0.0	10	4.2
TOTAL PROCUREMENT COST				0	1.8		0.0		0.7		0.0		0.0		0.0		0.0		0.0		0.0		2.5
TOTAL COST					1.8		1.4		0.7		2.8		0.0		0.0		0.0	·	0.0		0.0		6.7
METHOD OF IMPLEMENTATION:		COMPETITIVE				ADMINISTRATIVE	LEADTIME:		9 MONTHS				PRODU	CTION LEAD			1	2					
CONTRACT DATE: PRODUCTION DELIVER DATE:		PRIOR YEAR: PRIOR YEAR:		1		CURRENT YEAR: CURRENT YEAR:				BUDGET YE		May 98 May 99			BUDGET YEAR BUDGET YEAR		1	-			1		
INSTALLATION SCHEDULE:		FRIOR TEAR.	- 1			CORRENT TEAR.				BODGETTE		may 55									1		
									FY99		FY00		FY01		FY02		FY03		TC				
	INPUT =====>		FY96		FY97		FY98		1 2 3 4		1234		1 2 3 4		1 2 3 4		1 2 3 4			ļ	TOTAL		
	FY 1996 & PRIOR		FY96 1, 2, 3, 4	_	1, 2, 3, 4 7		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4	-	1, 2, 3, 4		TOTAL 7		
	FY 1996 & PRIOR FY 1997		FY96 1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-			7		I
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999		FY96 1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-			7 0 3		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000		FY96 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-			7		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001		FY96 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				7 0 3		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001		FY96 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-			7 0 3		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001		1, 2, 3, 4		1, 2, 3, 4 7		1, 2, 3, 4		1, 2, 3, 4		FY00		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20		
	FY 1996 & PRIOR FY 1997 FF 1998 FF 1999 FF 2000 FF 2001 FF 2002 FF 2003 OUTPUT **********************************		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 OUTPUT **********************************		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20 TOTAL		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2002 FY 2017 FY 1996 FY 1996 FY 1997 FY 1996 FY 1997 FY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 10 20 TOTAL		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 OUTPUT **** FY 1996 FY 1997 FY 1999 FY 1999 FY 1999 FY 2000		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20 TOTAL		
	PY 1996 & PRIOR PY 1997 PY 1998 PY 1998 PY 1999 PY 2001 PY 2002 PY 2002 PY 2003 OUTPUT ******> PY 1998 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2000		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20 TOTAL		
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 OUTPUT **** FY 1996 FY 1997 FY 1999 FY 1999 FY 1999 FY 2000		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 10 20 TOTAL 7 0 3		
	PY 1996 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2002 PY 2002 PY 2002 PY 1998 PY 1997 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		7 0 3 10 20 TOTAL		
	PY 1996 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2002 PY 2002 PY 2002 PY 1998 PY 1997 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TC 1, 2, 3, 4		7 0 3 3 10 10 20 TOTAL 7 0 3 3		P-3A
	PY 1996 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2002 PY 2002 PY 2002 PY 1998 PY 1997 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	PAGE	FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	UNCLASSIFIED	7 0 3 3 10 10 20 TOTAL 7 0 3 3		P-3A
	PY 1996 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2002 PY 2002 PY 2002 PY 1998 PY 1997 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TC 1, 2, 3, 4	UNCLASSIFIED	7 0 3 3 10 10 20 TOTAL 7 0 3 3		P-3A
	PY 1996 & PRIOR PY 1997 PY 1997 PY 1998 PY 2000 PY 2000 PY 2002 PY 2002 PY 2002 PY 1998 PY 1997 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998 PY 1998		1, 2, 3, 4		1, 2, 3, 4 7 FY97 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		FY00 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TC 1, 2, 3, 4	UNCLASSIFIED	7 0 3 3 10 10 20 TOTAL 7 0 3 3		P-3A

'																						_
	TION: UNCLASSIFIED																					
3A			INDIVIDUAL MODIFICATION	N																	EBRUARY 1	1997
	ON TITLE: HM&E ITEMS UNDER 2M																					
	SYSTEM AFFECTED: 300 TON A/C	(LHA MIDLIFE UPGRADE)																				
	ON/JUSTIFICATION: ENT STATUS/MAJOR DEVELOPMENT	MII ECTONEC.						+											то	то		
DEVELOPMEN	ENT STATUS/MAJOR DEVELOPMENT	WILESTONES.		FY96																COMP	TOTAL	TOTAL
			QTY	PRIOR	QTY	FY 97	QTY	FY 98	QTY F	' 99 C	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL P	PLAN (IN MILLIONS)							11.00														
RDT&E			'						,				,						,		0	0.0
PROCUREME	1ENT																				0	0.0
QUANTITY					1		1		1		2										5	0.0
INSTALLATION																					0	0.0
	TION KITS NONRECURRING	1 1	1		1						1	1	1								0	0.0
EQUIPMENT				1	1	1.0		1.0		.0		2.0				1					0	5.0
	T NONRECURRING ING CHANGE ORDERS	1 1	1		1			1	1							1			1		0	0.0
DATA	ING CHANGE ORDERS			1	1											1					0	0.0
TRAINING E	FOLIIPMENT				1			1 '								1 1					n	0.0
SUPPORT E		1 1			1				-	1	1					1					ō	0.0
OTHER					1			1 '								1 1			1		ō	0.0
INTERIM CO	ONTRACTOR SUPPORT				1					,			,								0	0.0
NSTALL ATIC	ON OF HARDWARE																					
FY96 EQUIP	PMENT							+														1
FY97 EQUIPI			' '				1	5.1			,	,	,						-		1	5.1
FY98 EQUIP	PMENT								1	.3											1	5.3
FY99 EQUIP																					0	0.0
FY 00 EQUIP										4	AP	2.0	1	4.4							1	6.4
FY01 EQUIP													2.0	8.8		_					2	8.8
FY 02 EQUIP		1 1			1				1		- 1		1			1 1					0	0.0
TO COMPLE				1	1											1					0	0.0
TO COMPLE	EIE			1	1			1				1				1 1			1	1	U	0.0
TOTAL INSTA	ALLATION COST		1	1	1	0.0	1	5.1	1	.3	AP	2.0	3	13.2		0.0		0.0	1	0.0	5	25.6
	CUREMENT COST					1.0		1.0		.0		2.0		0.0		0.0		0.0		0.0		5.0
TOTAL COST	т	1 1	1		1	1.0		6.1		.3	1	4.0	1	13.2		0.0		0.0		0.0		30.6
METHOD OF	IMPLEMENTATION:	AIT																				
CONTRACT D					ADMINISTR	ATIVELEN	STIME, OM	TUC			DDO	DUCTION	LEADTIME	. 42 MTUC								
		DDIOD VEAD.		1			DTIME: 9 M		BUIDGET VEAD	Eo		DUCTION	LEADTIME			Eob-99						1
		PRIOR YEAR:	<u> </u>	1	CURRENT	YEAR:	Jul-97		BUDGET YEAR:		eb-98	DUCTION		BUDGET YE	AR 2:	Feb-99						I I
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:	PRIOR YEAR: PRIOR YEAR:		1		YEAR:			BUDGET YEAR: BUDGET YEAR:			DUCTION			AR 2:	Feb-99 Feb-00						
PRODUCTION	N DELIVER DATE: 2/98		FY96	FY97	CURRENT	YEAR: YEAR: FY98	Jul-97	FY99	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00		тс				
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE: INPUT =====>		FY96 1, 2, 3, 4	FY97 1, 2, 3, 4	CURRENT	YEAR: YEAR:	Jul-97		BUDGET YEAR:	Fe	eb-98 eb-99	- 1	ļ	BUDGET YE BUDGET YE	AR 2:	Feb-00		TC 1, 2, 3, 4		TOTAL		1
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:  INPUT =====> FY 1996 & PRIOR				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00						 
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:  NPUT ======> FY 1996 & PRIOR   FY 1997				CURRENT	YEAR: YEAR: FY98	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00			  -  -	0		
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:  INPUT =====>   FY 1996 & PRIOR   FY 1997   FY 1998				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01 , 2, 3, 4	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00				0		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>   FY 1996 & PRIOR   FY 1997   FY 1999   FY 1999   FY 1999   FY 1999				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01 , 2, 3, 4	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00				0		
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:  INPUT =====>   FY 1996 & PRIOR   FY 1997   FY 1998				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01 , 2, 3, 4	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00			-	0		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>   FY 1996 & PRIOR   FY 1997   FY 1999   FY 1999   FY 1999   FY 1999				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01 , 2, 3, 4	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00				0 1 1		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>   FY 1996 & PRIOR   FY 1997   FY 1999   FY 1999   FY 1999   FY 1999				CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:	/00 Fe	eb-98 eb-99	FY01 , 2, 3, 4	ļ	BUDGET YE BUDGET YE FY02	AR 2:	Feb-00				0 1 1 1 2		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>  FY 1996 & PRIOR  FY 1997  FY 1997  FY 1999  FY 2000  OUTPUT =====>		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	700 , 3, 4	eb-98 eb-99	FY01 , 2, 3, 4		BUDGET YE BUDGET YE FY02 1, 2, 3, 4	AR 2:	Feb-00 FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2		
PRODUCTION	N DELIVER DATE: 2/98 ON SCHEDULE:  NPUT ======>  FY 1996 & PRIOR  FY 1997  FY 1998  FY 1999  FY 2000  OUTPUT =====>  FY 1996 & PRIOR		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	1 FY99 1, 2, 3, 4 1 FY99	BUDGET YEAR:  F 1,2	Fe (00 ) , 3, 4	eb-98 eb-99	FY01 , 2, 3, 4 1 2		BUDGET YE BUDGET YE FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4  1  FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	Fe (00 ) , 3, 4	eb-98 eb-99	FY01 , 2, 3, 4 1 2		BUDGET YE BUDGET YE FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>  FY 1996 & PRIOR  FY 1997  FY 1998  FY 1999  FY 2000  OUTPUT ====>  FY 1996 & PRIOR  FY 1997  FY 1997  FY 1997  FY 1998		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	1 FY99 1, 2, 3, 4 1 FY99	BUDGET YEAR:  F 1,2	Fe (700 ) (3, 4 ) (700 ) (3, 4 )	eb-98 eb-99	FY01 , 2, 3, 4 1 2		BUDGET YE BUDGET YE FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======> FY 1996 & PRIOR FY 1997 FY 1998 PY 1999 OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1996 FY 1999 FY 1996 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4  1  FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	Fe (00 ) , 3, 4	eb-98 eb-99	FY01 , 2, 3, 4 1 2		FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======>  FY 1996 & PRIOR  FY 1997  FY 1998  FY 1999  FY 2000  OUTPUT ====>  FY 1996 & PRIOR  FY 1997  FY 1997  FY 1997  FY 1998		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4  1  FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	Fe (700 ) (3, 4 ) (700 ) (3, 4 )	eb-98 eb-99	FY01 , 2, 3, 4 1 2		BUDGET YE BUDGET YE FY02 1, 2, 3, 4 FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5 TOTAL		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======> FY 1996 & PRIOR FY 1997 FY 1998 PY 1999 OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1996 FY 1999 FY 1996 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999 FY 1999		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4  1  FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	Fe (700 ) (3, 4 ) (700 ) (3, 4 )	eb-98 eb-99	FY01 , 2, 3, 4 1 2		FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5 TOTAL		
PRODUCTION	IN DELIVER DATE: 2/98 ON SCHEDULE:  INPUT ======> FY 1996 & PRIOR FY 1997 FY 1998 PY 1999 OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1996 FY 1997 FY 1996 FY 1999 FY 1999 FY 1999 FY 1999		1, 2, 3, 4	1, 2, 3, 4	CURRENT	YEAR: YEAR: FY98 1, 2, 3, 4	Jul-97	FY99 1, 2, 3, 4  1  FY99 1, 2, 3, 4	BUDGET YEAR:  F 1,2	Fe (700 ) (3, 4 ) (700 ) (3, 4 )	eb-98 eb-99	FY01 , 2, 3, 4 1 2		BUDGET YE BUDGET YE FY02 1, 2, 3, 4 FY02 1, 2, 3, 4	AR 2:	FY03 1, 2, 3, 4		1, 2, 3, 4		0 1 1 1 2 5 TOTAL		P-3A

	ATION: UNCLASSIF	IED																							
3A	ION TITLE LINES I		***			INDIVIDUAL MODIFI	CATION																FEBRUAR	1997	
	ION TITLE: HM&E I F SYSTEM AFFECTE			IONED																					
					ooling to th	ne chilled water system	n which is a v	rital evetom	supporting	and the chi	ne critical of	foncive an	defensive e	lactronic s	vetome lack	of a									
ntinuous s	supply of chilled wat	er to these vita	l systems h	s provide co	effect on i	mission capability. Th	e chilled wat	er demand	on aircraft ca	arriers has	arown as a r	esult of ins	allation of nu	merous el	lectronic syste	ms .									
EVELOPM	IENT STATUS/MAJO	R DEVELOPM	MENT MILES	STONES:	J 011001 011 1	mooion oupubling. Th	T T	or domand	on an orant of		J. 0 W. 1 G. G. 1	Tour or mo										то	то		
							FY 96															COMP	COMP	TOTAL	TOTA
						QTY	& PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
INANCIAL	PLAN (IN MILLIONS	)																							
		-																							
RDT&E	,		,			'	,		'								'		'					0	0.0
PROCUREN																								0	0.0
QUANTITY						11		1		2		1												15	0.0
	TION KITS																							0	0.0
	TION KITS NONREC	URRING																						0	0.0
EQUIPMEN	NT NT NONRECURRING								1.4		1.3		3.2		1									0	5.9 0.0
	RING CHANGE ORD					1	1	1	1		1	ı							1 1				1	0	0.0
DATA	WING CHANGE OND	LIKO					-						1											n	0.0
	EQUIPMENT	1 1	1				1		1		1	1	1 1		1 1		1		1 1					ő	0.0
	EQUIPMENT	1	1			1	1				1													ő	0.0
OTHER							1						1											ō	0.0
INTERIM C	CONTRACTOR SUPP	ORT	'			1	1	1							' '						'			0	0.0
ISTALLAT	ION OF HARDWARE	<u> </u>																							
EVOC EOUI	IPMENT & PRIOR					2	17.3	1	7.3	2	13.9	3	24.2	3	19.7									11	82.4
FY97 EQUI		1 1		1			17.3		7.3	-	13.5		24.2	3	19.7	1	6.3		1 1				1	1	6.3
FY98 EQUI		-1		- 1		1						1	1				0.5	2	6.8				1	2	6.8
Y99 EQUI		1 1	1				1				1	1	1 1					_	1 1	1	7.6			1	7.6
FY 00 EQU		1				1	1	1				1											1	0	0.0
FY01 EQUI																								0	0.0
FY 02 EQU																								0	0.0
FY03 EQUI																								0	0.0
TO COMPL	LETE	1				1	1				1	1												0	0.00
OTAL INST	TALLATION COST		l l			2	17.3	2	7.3	2	13.9	3	24.2	3	19.7	1	6.3	1	6.8	1	7.6			15	103.1
COTAL PRO	CUREMENT COST						0.0		1.4		1.3		3.2		0.0		0.0		0.0		0.0			0	5.9
TOTAL COS		1					17.3		8.7		15.2	1	27.4		19.7		6.3		6.8		7.6			15	109.0
	F IMPLEMENTATION	N: SHIPYD/CO							RATIVE LEA	ADTIME: 6				P	RODUCTION										
	DATE: 6/97			PRIOR YEA				CURRENT				BUDGET			Feb-98		BUDGET Y			Feb-99					
RODUCTIO	ON DELIVER DATE:			PRIOR YEA	R: Jun-9	95		CURRENT	YEAR:		Aug-99	BUDGET	EAR:		Feb-00		BUDGET Y	EAR 2:		Feb-01					
METALLAT	ION SCHEDULE:			1			-1						1												
HOTALLATI	INPUT ==		1	1		FY96	FY97	1	FY98		FY99	I	FY00		FY01		FY02		FY03		TC		1 1		1
- 1	1141 01		-	- 1		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		1
	FY 1996	& PPIOP				2	1, 2, 3, 4		1 1		1 1 1 1	1	21		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		11		1
	FY 1997	u i kiok				-	<u> </u>						21		1								1		
	FY 1997		-			I	1	1	1		1	1	1 1				1		1 1		1		1		1
	FY 1998 FY 1999																. '		1		1		2		
	F1 1999																-						15		
1	OUTPUT			1		FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC		15		1
	OUTPUT	====>		1		1, 2, 3, 4	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		
1	EV 4000	e ppiop	-	-	1	1, 2, 3, 4		1			1, 2, 3, 4				1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4				1
	FY 1996	& PRIOR					2 1		1				1 1		1								11		
	FY 1997						1	1			l	1			1 1								1		
	FY 1998																1						1		
	FY 1999																		1		1		2		
																							15		
DECOMIS	SSIONED SHIPS ASS	BEIS										D. O.	- 40								01 1001-1-			_	P-3A
		1					1		ITEM	21		PAGE	13								CLASSIFIC	ATION: U	NCLASSIFIE	:υ	

						$\neg$																		
	CATION: UNCLASSIFIED																							
P3A				INE	DIVIDUAL MODIFICAT	ION																FEBRUARY 1	997	
	TION TITLE: HM&E ITEMS UNDER																							
	OF SYSTEM AFFECTED: REV OSM	OSIS (LHA M	DLIFE UPGRA	(DE)																				-
	ION/JUSTIFICATION: MENT STATUS/MAJOR DEVELOPI		01150																		то	то		
JEVELOPM	MENT STATUS/MAJOR DEVELOP	MENI MILESI	JNES:	+		FY 96															COMP	COMP	TOTAL	TOTAL
+					OTV	& PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	OTV	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
EINANCIAI	L PLAN (IN MILLIONS)		++		411	a FRIOR	Q11	1137	Q I I	1130	QII	1133	Q11	1100	Q11	1101	QII	1102	QII	1103	Q11	0031	QII	0031
RDT&E	E P EAR (IN MILELIONS)	- '					1	1 1				1			1				'	-		1	0	0.0
PROCUREN	MENT		T				1	1		1		I I			1			1				1	0	0.0
QUANTITY									4	1	1		16	'					,			1	20	0.0
INSTALLA	ATION KITS																						0	0.0
INSTALLA	ATION KITS NONRECURRING																						0	0.0
EQUIPMEN										1.8				7.2									0	9.0
	NT NONRECURRING					_																	0	0.0
	RING CHANGE ORDERS																						0	0.0
DATA						_	1	1 1		1									1			1	0	0.0
	EQUIPMENT							1 1															0	0.0
OTHER	TEQUIPMENT	1	1			_		1 1		1												1	0	0.0
							-	1		1												1	0	0.0
INTERIMO	CONTRACTOR SUPPORT					$\overline{}$	_									_							U	0.0
INSTALL AT	TION OF HARDWARE	_	++			+	+			<del>                                     </del>				-	_							1		1
	JIPMENT & PRIOR		+			+	+															1		1
FY97 EQUI		1	-					1 1		١					1							1	0	0.0
FY98 EQUI									AP	0.6	4	1.3											4	1.9
FY99 EQUI		,								l .									,				0	0.0
FY 00 EQU													AP	1.7	10	3.3	•						16	5.0
FY01 EQUI																							0	0.0
FY 02 EQU																							0	0.0
FY03 EQUI																							0	0.0
TO COMPL	LETE		1			_	1	1 1		1									1			1	0	0.0
TOTAL 1010	STALLATION COST					0.0	-	0.0	AP	0.6	4	1.3	AP	1.7		3.3	0	0.0	0	0.0	0	0	20	6.9
TOTALINS	STALLATION COST		$\overline{}$			0.0		0.0	AF	0.0	-	1.3	AF	1./		3.3	U	0.0	- 0	0.0	U		20	6.9
TOTAL PRO	OCUREMENT COST							0.0		1.8		0.0		7.2		0.0		0.0		0.0		0.0		9.0
TOTAL COS						0.0		0.0		2.4	1	1.3		8.9		3.3		0.0	,	0.0		0.0	1	15.9
	OF IMPLEMENTATION:	AIT						RATIVE LEADT	ГІМЕ:		6				PRODUCTIO			12						
CONTRACT			PRIOR YEAR			_	CURRENT				BUDGET Y			May-98		BUDGET YE								
	ION DELIVER DATE:			R:								EAD.		May-99		BUDGET YE	AR 2:							
INSTALLAT			PRIOR YEAR				CURRENT	YEAR:			BUDGET Y	EAR:										1		
	TION SCHEDULE:		PRIOR YEA				CURRENT				BUDGET Y											1		
	TION SCHEDULE: INPUT =====>		PRIOR YEA		FY96	FY97		FY98		FY99		FY00		FY01		FY02		FY03	L	тс		· 	1	
	INPUT =====>		PRIOR YEA		FY96 1, 2, 3, 4	FY97 1, 2, 3, 4												FY03 1, 2, 3, 4	L	TC 1, 2, 3, 4		TOTAL		1
	INPUT =====> FY 1996 & PRIOR		PRIOR YEA					FY98		FY99		FY00		FY01		FY02			L			TOTAL	-	
	FY 1996 & PRIOR FY 1997		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01		FY02			_				  -	
	FY 1996 & PRIOR FY 1997 FY 1998		PRIOR YEA					FY98		FY99		FY00		FY01		FY02			<u>_</u>			4	-	-
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1998 FY 1999		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01 1, 2, 3, 4		FY02						4 0	-	
	FY 1996 & PRIOR FY 1997 FY 1998		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01		FY02						4	-	
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01 1, 2, 3, 4		FY02			_			4 0 16	-	
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 1999 FY 2000 FY 2001		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01 1, 2, 3, 4		FY02			_			4 0 16	-	
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002		PRIOR YEA					FY98		FY99 1, 2, 3, 4		FY00		FY01 1, 2, 3, 4		FY02			-			4 0 16	-	
	FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20		
	FY 1996 & PRIOR FY 1997 FY 1997 FY 1999 FY 2000 FY 2000 FY 2002 FY 2003		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4	-	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16	-	
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20	-	
	NPUT ======>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     FY 2005     FY 2005     FY 2006     FY 2007     FY 2008     FY 2008     FY 2008     FY 1996 & PRIOR		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20	-	
	NPUT =====>   FY 1996 & PRIOR     FY 1998     FY 1998     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20	-	
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2002     FY 2003     FY 2003     FY 1906 & PRIOR     FY 1997     FY 1997     FY 1998		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL	-	
	NPUT =====>   FY 1996 & FRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 1999		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL	-	
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2002     FY 2003     FY 1906 & PRIOR     FY 1997     FY 1997     FY 1998     FY 1999     FY 1999     FY 2000     FY 1999     FY 2000     FY 1999     FY 2000     FY 1990     FY 2000     FY 1990     FY 2000		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL		
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2000     FY 2000     FY 2000     FY 2000     FY 2001     FY 2000     FY 2001     FY 2001		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL		
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2000     FY 2001     FY 2001     FY 2002     FY 2000     FY 2001     FY 2002     FY 2000     FY 2001     FY 2000     FY 2001     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2000     FY 2001     FY 2001     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2001     FY 2002     FY 2002     FY 2002     FY 2002     FY 2003     FY 2004     FY 2005     FY 2006     FY 2007     FY 2007     FY 2008     FY 2009     FY 2009		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL	-	
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2000     FY 2000     FY 2000     FY 2000     FY 2001     FY 2000     FY 2001     FY 2001		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL		
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2000     FY 2001     FY 2001     FY 2002     FY 2000     FY 2001     FY 2002     FY 2000     FY 2001     FY 2000     FY 2001     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2000     FY 2001     FY 2001     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2001     FY 2002     FY 2002     FY 2002     FY 2002     FY 2003     FY 2004     FY 2005     FY 2006     FY 2007     FY 2007     FY 2008     FY 2009     FY 2009		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		TOTAL  4 0 16 20  TOTAL  4 0 16 20		
	NPUT =====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2003     OUTPUT ====>   FY 1996 & PRIOR     FY 1997     FY 1998     FY 1999     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2000     FY 2001     FY 2001     FY 2002     FY 2000     FY 2001     FY 2002     FY 2000     FY 2001     FY 2000     FY 2001     FY 2000     FY 2001     FY 2002     FY 2001     FY 2002     FY 2000     FY 2001     FY 2001     FY 2001     FY 2002     FY 2001     FY 2002     FY 2002     FY 2001     FY 2002     FY 2002     FY 2002     FY 2002     FY 2003     FY 2004     FY 2005     FY 2006     FY 2007     FY 2007     FY 2008     FY 2009     FY 2009		PRIOR YEA		1, 2, 3, 4	1, 2, 3, 4		FY98 1, 2, 3, 4		FY99 1, 2, 3, 4 4 FY99	-	FY00 1, 2, 3, 4 FY00 1, 2, 3, 4		FY01 1, 2, 3, 4		FY02 1,2,3,4		1, 2, 3, 4		1, 2, 3, 4		4 0 16 20 TOTAL	-	P-3A

LASSIFICATION: U	LINCI ASSIFIED																							
BA BA	ONCEAGON NED				INDIVIDUA	L MODIFIC	ATION																FEBRUAR	Y 1997
ODIFICATION TITL	LE: HM&E ITEMS	UNDER 2	1																					
ODELS OF SYSTE		HT UPGRA	DE (LHA MIDL	IFE UPGRADE)																				
ESCRIPTION/JUST																								
EVELOPMENT STA	ATUS/MAJOR DE	VELOPMEN	IT MILESTONE	S:			F1/ 00														то	то		
						QTY	FY 96 & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03 QTY	COMP	TOTAL	COS
						QIT	& PRIOR	QIT	FT 9/	QIT	FT 96	QIT	FT 99	QIT	F1 00	QIT	PT UI	QIT	F1 02	QIT	FT U3 Q11	COST	QIT	COS
INANCIAL PLAN (IN RDT&E	IN MILLIONS)		1		-	1	1	1	1	l	l				1 1		1						0	0.0
PROCUREMENT	1	1	1	1 1	1	1	1	1		l	1				1 1		1						0	0.0
QUANTITY	1	1	1	' '	'	1	1	3	1	3	1	3		6	' '						'	-	15	0.0
INSTALLATION KIT	TS																						0	0.0
INSTALLATION KIT	TS NONRECURR	ING																					0	0.0
EQUIPMENT									0.5		0.6		0.6		1.2								0	2.9
EQUIPMENT NONR		1					1	1	1	1													0	0.0
ENGINEERING CHA	ANGE ORDERS		1		- 1	1					ļ				1								0	0.0
TRAINING EQUIPM	AENT	1	1	1	1	1	1	1	1	ı	1				1		1				1	1	0	0.0
SUPPORT EQUIPM		1	1	1	1		1	1	1	1	1		1		1						1	-	0	0.0
OTHER		1				1																	0	0.0
INTERIM CONTRAC	CTOR SUPPORT						,		,									,			,		0	0.0
NSTALLATION OF H																								
FY96 EQUIPMENT FY97 EQUIPMENT					- 1					3					1 1								3	5.7
FY98 EQUIPMENT			1	1	1	1	1	1	1	3	5.7	3	6.0								1	1	3	6.0
FY99 EQUIPMENT			1		-	1	1	1	1		1		0.0	3	6.5						-		3	6.5
FY 00 EQUIPMENT																6	8.1						6	8.1
FY01 EQUIPMENT					· ·													,					0	0.0
FY 02 EQUIPMENT																							0	0.0
FY03 EQUIPMENT																							0	0.0
TO COMPLETE	1	1	1				1	1	1	ı	1												0	0.0
OTAL INSTALLATION	ION COST		1		-	1	1		0.0		5.7	3	6.0	3	6.5	6	8.1		0.0		0.0		15	26.3
OTAL INGTALLATIO		1							0.0		0.7		0.0		U.U				0.0		0.0			
OTAL PROCUREME	IENT COST								0.5		0.6		0.6		1.2		0.0		0.0		0.0			2.9
OTAL COST									0.5		6.3		6.6		7.7		8.1	,	0.0		0.0			29.2
METHOD OF IMPLEM		OMPETITIVE							RATIVE LEAD							CTION LEA			12		2 MONTHS			
CONTRACT DATE: PRODUCTION DELIV		1		PRIOR YEAR: PRIOR YEAR:				CURRENT		Jul-97		BUDGET Y			Feb-98		BUDGET YE			Feb-99			ı	
NSTALLATION SCH			1	PRIOR TEAR:	-	1	1	CURRENT	TEAK:	Jul-98		BUDGET	EAR:		Feb-99		BUDGET TE	AR 2:		Feb-00				1
HOTALLATION SOIT	INPUT ==	====>	I		FY96	1	FY97		FY98	I	FY99		FY00		FY01		FY02		FY03		тс		1	
1	ļ <b>2 · · ·</b>		1	1	1, 2, 3, 4	_	1, 2, 3, 4	_	1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4	TOTAL	1	
	FY 1996 8	RIOR				-														_				
	FY 1997								3													3		
	FY 1998										3											3		
	FY 1999	1					-	-	-				3									3		
	FY 2000	1					-	1	1	-					6							6	-	
	FY 2001 FY 2002							1														15		
						1		1	1															
	FY 2003	1				1	<u> </u>	1	<u> </u>															
	FY 2003					1	FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC			
	FY 2003	====>			FY96								1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	_	4 0 0 4			
	OUTPUT				FY96 1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4						1, 2, 3, 4	_	1, 2, 3, 4	TOTAL		
	OUTPUT FY 1996 8					_ -		-	1, 2, 3, 4				1, 2, 3, 4					•	1, 2, 3, 4	_	1, 2, 3, 4			ı
	OUTPUT FY 1996 8 FY 1997					-		: 	1, 2, 3, 4		1, 2, 3, 4							•	1, 2, 3, 4	-	1, 2, 3, 4	3		1
	OUTPUT  FY 1996 8  FY 1997  FY 1998					<u>-</u>			1, 2, 3, 4				0030				.,,,,,,		1, 2, 3, 4	_	1, 2, 3, 4	3		
	OUTPUT  FY 1996 8  FY 1997  FY 1998  FY 1999					-		<u>-</u> 	1, 2, 3, 4										1, 2, 3, 4	_	1, 2, 3, 4	3 3 3	-	
	OUTPUT  FY 1996 8  FY 1997  FY 1998					-			1, 2, 3, 4				0030				6		1, 2, 3, 4		1, 2, 3, 4	3 3 3 6		
	OUTPUT  FY 1996 8  FY 1997  FY 1998  FY 1999  FY 2000					- 		1	1, 2, 3, 4				0030						1, 2, 3, 4		1, 2, 3, 4	3 3 3		1
	OUTPUT  FY 1996 8 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001					-			1, 2, 3, 4				0030						1, 2, 3, 4		1, 2, 3, 4	3 3 3 6		
	FY 1996 8 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002					-		-	1, 2, 3, 4				0030						1, 2, 5, 7		1, 2, 3, 4	3 3 3 6		
	FY 1996 8 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002								1, 2, 3, 4				0030						1, 2, 5, 7		1, 2, 3, 4	3 3 3 6		
	FY 1996 8 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002								1, 2, 3, 4	21	3	PAGE	0030						1, 2, 5, 7		CLASSIFICATION:	3 3 3 6 15		P-3A

MONIFICATION TITLE: MAKE ITEMS UNDER 288  MONIFICATION TITLE: MAKE ITEMS	CLASSIFICATION: UNCLASSIFIED		1					1	1	-													
Company   Comp	P3A			INDIVIDU	AL MODIFICA	ATION										_	+		+		<del>                                     </del>	FEBRUAR	RY 1997
ROBLES OF PRISES AFFECTIVE COMMANDICATION LAWS COME OF ACT		R 2M																1				22.1.5741	1
FOR CONTROL PRINCE AND CONTROL P	MODELS OF SYSTEM AFFECTED: COMMA		OL UPG (25	0 TON A/C)																			
THE COUNTY OF TH	DESCRIPTION/JUSTIFICATION:																						
PYS ON PY	DEVELOPMENT STATUS/MAJOR DEVELO	PMENT MILE	STONES:																				
Control   A FRICK   ST   FYS   ST   ST   ST   ST   ST   ST   ST						EV 00																TOTAL	TOTAL
PRINCE   P					OTV		OTV	EV 07	OTV	EV 00	OTV	EV 00	OTV	EV 00	OTV EVA	OTV	EV 02	OTV	EV 02				COST
SOURCEMENT COUNTRY C C COUNTRY C C C C C C C C C C C C C C C C C C C	EINANCIAL DI AN (IN MILLIONS)			_	QII	a FRIOR	QII	FISI	QII	F1 30	QII	F1 33	QII	F1 00	QII FIU	ı QII	F1 02	QII	F1 03	QII	0031	QII	0031
RECOMMENT  INSTALLATION OF SOME COURTEN  INSTALLATION OF SOME COUR	FINANCIAL PLAN (IN MILLIONS)																						
RECOMMENT  INSTALLATION OF SOME COURTEN  INSTALLATION OF SOME COUR	RDT&E	1																1	1			0	0.0
GUMENT GOLDSTONE							1		1	1								1		1			0.0
METALATON OF SOME COURS OF THE COUNTY OF THE COUNTY OF THE COURS OF THE COUNTY OF THE	QUANTITY				'				6	,					,				1		1	6	0.0
COMPARTY   COUNTRY   CONTROL   CON	INSTALLATION KITS																					0	0.0
COUPMENT																	,						0.0
REMINISTRATION CONTROL OF THE STORY AND ADMINISTRATIVE LICENSES AND ADMINISTRATIVE LIC										6.2													6.2
DATA TRANSPERSONABLE		1 1			1		1		1	1					1	1	1		1	1	1	-	
TRANNOS GUIMPRENT  ***TRANTOS GUIMPRENT  ***		1 1					l.	l						1			-1	1	1	ļ.	1		
SUPPORT COURSENT  PPORE COUMENT  PROPERTY  COURT OF THE COUMENT  PROPERTY TAKE  ADMINISTRATIVE LEADINGS SWITHS  BUDGET VEAR: MOSTING  BUDGET VEAR: MOSTING  PPORE PPORE  PPORE  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PPORE PROP  PROP  PROP  PROP  PROP  PORE PROP  PORE		1 1			1									1				1	1		1		0.0
OTHER OF MARINAGES SUPPORT  WISHALATON SEPARATOR SUPPORT  PROFE RECOMMENT  PYPE SCOUMENT  PYPE S		1 1			1		1	1 1							1	1	1	1	1	1	1		0.0
NEGRICO CONTRACTOR SUPPORT	OTHER																						0.0
PRISE BOUNDARY PYPE BOUNNEY PYP	INTERIM CONTRACTOR SUPPORT			<u> </u>			·	<u> </u>						<u> </u>					<u> </u>	·	<u> </u>		0.0
PRISE BOUNDARY PYPE BOUNNEY PYP																							
PYOS GRUPMENT FYO S GRUPMENT FY S GRUPMENT	INSTALLATION OF HARDWARE																						
PYOS GRUPMENT FYO S GRUPMENT FY S GRUPMENT																		1			-		1
FYPE EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIPMENT FYP EQUIP	EV96 EQUIPMENT																	1	1		-		0.0
FYSE GRUMMENT FY GROUPMENT FY G		1 1						1									-	1	1		1		
FYOS GRUPMENT FYOS GRUPMENT FYOS GRUPMENT FYOS GRUPMENT TO COMPLETE  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		1 1			1 1		1		1	1	3	10.4	3	11.6			1	1	1	1	1	6	22.0
FY OS CRUMPENT FY OS		1			1											1	1	1	1		1	Ö	0.0
FY 02 COUPMENT TO COMPLETE    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FY 00 EQUIPMENT									1												0	0.0
FY35 CUMPMENT TO COMPLETE  OTAL INSTALLATION COST  O	FY01 EQUIPMENT			· ·											· ·							0	0.0
TO COMPLETE  TO TAL NATIALLATION COST  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	FY 02 EQUIPMENT																					0	0.0
TOTAL NOTAL INFOLUMENT COST  0.0 0.0 0.0 0.0 3 10.4 3 11.5 0.0 0.0 0.0 0.0 0.0 6 22.  TOTAL PROCUREMENT COST  0.0 0.0 0.0 6.2 10.4 11.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0																							0.0
TOTAL PROCURENT COST  O.0  O.0  O.0  O.0  O.0  O.0  O.0  O.	TO COMPLETE				1		1		1	1						1	1		1	1	1	0	0.0
TOTAL PROCURENT COST  O.0  O.0  O.0  O.0  O.0  O.0  O.0  O.	TOTAL INSTALL ATION COST	1 1				0.0		0.0		0.0	3	10.4	2	11.6	0.0		0.0	1	0.0		1	6	22.0
DOTAL COST	TOTAL INSTALLATION GOST					0.0		0.0		0.0	<u> </u>	10.4		11.0	0.0		0.0		0.0				22.0
METHOD OF IMPLEMENTATION: ATT	TOTAL PROCUREMENT COST					0.0		0.0		6.2		0.0		0.0	0.0		0.0		0.0			6	6.2
DONTRACT DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR: MARD 98 BUDGET YEAR 2: BUDG	TOTAL COST					0.0		0.0		6.2		10.4		11.6	0.0	,	0.0		0.0				28.2
DONTRACT DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR: MARD 98 BUDGET YEAR 2: BUDG																							
RODUCTION DELIVER DATE: PRIOR YEAR: CURRENT YEAR: BUDGET YEAR: JUNE 99 BUDGET YEAR 2: BUDGET YEA									DTIME: 9 N					PRODUCTIO			MONTHS						
NSTALLATION SCHEDULE:    NPUT ======>					1				1								1		1	1	1		1
NPUT =======>	PRODUCTION DELIVER DATE:		PRIOR YEA	AR:			CURRENT	YEAR:			BUDGETY	EAR: JUNI	E 99		BUDGE	T YEAR 2:							
NPUT =======>	INSTALLATION SCHEDULE:	1					1	1							1		1	1		1	1	1	1
FY 1996 & PRIOR FY 1997 FY 1998 FY 2000 FY 2001 FY 2002 OUTPUT =====> FY 1996 FY 1997 FY 1996 & FY97 FY 1996 & FY98 FY 1997 FY 1996 & FY98 FY 1996 & FY99 FY 2000 FY 1,2,3,4 FY 1996 & PRIOR FY 1997 FY 1996 & FY97 FY 1997 FY 1998 FY 2000 FY 2001 FY 2002				FY96		FY97		FY98	1	FY99		FY00		FY01	FY02		FY03	1	TC				1
FY 1996 FY 2000 FY 2000 FY 2002 FY 2002 FY 1996 FY 1996 FY 2002 FY 2002 FY 2002 FY 1,2,3,4 1,2	ļ ļ :	1 1							_									-		,	TOTAL	1	1
FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2002 OUTPUT =====>					_				-														
FY 1999 FY 2000 FY 2001 FY 2002 FY 2002 OUTPUT =====>  1, 2, 3, 4																							
FY 2001 FY 2002 FY 2002 FY 2002 FY 2002 FY 9002 FY 9005 FY 900										3		3									6		
FY 2001 FY 2002 FY 2002 OUTPUT =====>    1,2,3,4																							
FY 2002   OUTPUT =====>   FY96																							
FY 2002  OUTPUT =====>  1, 2, 3, 4 1, 2, 3,																							
OUTPUT =====>																							
FY 1996 & PRIOR FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2000 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2007 FY 2008 FY 2009 FY 2009 FY 2000 FY 200				FY96		FY97		FY98		FY99		FY00		FY01	FY02		FY03		TC				
FY 1996 & PRIOR FY 1997 FY 1998 3 FY 1999 FY 2000 FY 2000 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2004		1																_			TOTAL		,
FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002									_									_		_		_	
FY 1999 FY 2000 FY 2001 FY 2002 FY 200																							
FY 2000 FY 2001 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002 FY 2002												3		3							6		
FY 2001 FY 2002 FY 2002																							
FY 2002 FY 2002			1		1		1	1	- 1	-								1	T	1	1	1	1
FY 2002 P-3A					1		1	1						1	1		1	1	1	1	1	1	1
P-3A										1								1					1
ITEM 25 21   PAGE 16   CLASSIFICATION: UNCLASSIFIED				<u> </u>				<u> </u>						<u> </u>				· _	<u> </u>	<u> </u>			P-3A
			ITEM 25	21		PAGE		16					CLASSIFIC	CATION: UNC	LASSIFIED								

P3A	ICLASSIFIED																						
SA			INDIVIDUA	L MODIFICA	TION																-	FEBRUARY	Y 1997
ODIFICATION TITLE:	: HM&E ITEMS UNDER 2M																						
	AFFECTED: LANDING CRAFT AIR																						
	ICATION: Funds in this line are for											ability and/o	r cost										
	ced technology used in LCAC dema		ntinual modification	ons to ensure	proper miss	ion performance	and mainta	ain craft cor	figuration to	hose new craft													
EVELOPMENT STATI	US/MAJOR DEVELOPMENT MILEST	TONES:																	<u> </u>	TO	TO		
					FY 96															COMP	COMP	TOTAL	TOTAL
				QTY	PRIOR	QTY F	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
INANCIAL PLAN (IN N	MILLIONS)_																		<u> </u>	<u> </u>			
RDT&E	1		1																			0	0.0
PROCUREMENT				1000		564				164		227		149		774		837				3715	0.0
QUANTITY INSTALLATION KITS			1	1		1 1	1	1				1	1					1				0	0.0
INSTALLATION KITS			- 1	1		1						1	1			1	1	1				0	0.0
EQUIPMENT	NONRECORRING	1 1	1	1	6.5	1	4.4	1	0.0		16.2	1	13.9		16.0	1	17.0	1	17.0	1	1 .	U	91.0
EQUIPMENT NONREC	CURRING		- 1	1	6.5	1	4.4		0.0		10.2	1	13.9		10.0		17.0	1	17.0			•	0.0
ENGINEERING CHAN				1		1 1		1				1	1				1	1				0	0.0
DATA	IGE ORDERS			1		1						1	1					1				0	0.0
TRAINING EQUIPMEN	NT			1		1	1	1				1	1					1				n	0.0
SUPPORT EQUIPMEN			-			1 1																0	0.0
OTHER																						0	0.0
INTERIM CONTRACTO	OR SUPPORT	1 1		1			- 1	, i				1	1					1	'	· .		ō	0.0
																					$\overline{}$		
INSTALLATION OF HAI	RDWARE																						
FY96 EQUIPMENT & F	PRIOR			1000	2.9																	1000	2.9
FY97 EQUIPMENT						282	1.9	282	3.5													564	5.4
FY98 EQUIPMENT																			'	'		0	0.0
FY99 EQUIPMENT			,				,	,		164	2.0											164	2.0
FY 00 EQUIPMENT												227	2.9							'		227	2.9
FY01 EQUIPMENT														149	1.9							149	1.9
FY02 EQUIPMENT																774.0	9.8					774	9.8
FY03 EQUIPMENT																		837	10.7			837	10.7
TO COMPLETE																						0	0.0
																			'	'			
TOTAL INSTALLATION	N COST			1000.0	2.9	282.0	1.9	282.0	3.5	164.0	2.0	227.0	2.9	149.0	1.9	774.0	9.8	837.0	10.7			3715	35.6
																					$\perp$		
TOTAL PROCUREMEN TOTAL COST	IT COST				6.5		4.4				16.2		13.9		16.0		17.0	1	17.0				91.0
TOTAL COST	1	1 1	1		9.4		6.3		3.5		18.2		16.8		17.9		26.8		27.7				126.6
METHOD OF IMPLEME														CTION LEA					-	-			
METHOD OF IMPLEME CONTRACT DATE:	ENTATION: ATT	PRIOR YEAR:	VARIOUS	1		ADMINISTRATIV		VARIOUS		BUDGET YEAR		VARIOUS	PRODUC		BUDGET	VEAD O		VARIOUS					1
PRODUCTION DELIVER	D DATE.	PRIOR YEAR:	VARIOUS			CURRENT YEAR		VARIOUS		BUDGET YEAR		VARIOUS			BUDGET		1	VARIOUS		1	1 1		1
PRODUCTION DELIVER	R DATE.	FRIOR TEAR.	VARIOUS			CURRENT TEAT	K. 1	VARIOUS		BUDGET TEAT	ν.	VARIOUS			BUDGET	TEAR 2.		VARIOUS	-	$\vdash$	-		
INSTALLATION SCHED	DIII E-			1		1						1	1					1					1
INSTALLATION SCILL	INPUT =====>		FY96	I	FY97		FY98	1													1 1		1
	iler or			1							EVAN		EV01		EVO2		EV03						1
			1. 2. 3 4		1. 2. 3. 4				FY99 1, 2, 3, 4		FY00 1, 2, 3, 4		FY01		FY02		FY03	J	TC 1, 2, 3, 4		TOTAL		
	FY 1996 & PRIOR		1, 2, 3, 4	-	1, 2, 3, 4		2, 3, 4	-	FY99 1, 2, 3, 4		FY00 1, 2, 3, 4	-	FY01 1, 2, 3, 4		FY02 1, 2, 3, 4	_	FY03 1, 2, 3, 4	_	1, 2, 3, 4		TOTAL 1000		
	FY 1996 & PRIOR FY 1997			-								-				-		_			TOTAL 1000 282		
				- I	1, 2, 3, 4	1,		-				] - I				<u> </u> -		] -		-	1000		I
	FY 1997			-		1,	2, 3, 4	-				_				-		-			1000 282		
	FY 1997 FY 1998					1,	2, 3, 4	-	1, 2, 3, 4			-				-		-			1000 282 282		
	FY 1997 FY 1998 FY 1999					1,	2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	-									1000 282 282 164		
	FY 1997 FY 1998 FY 1999 FY 2000					1,	2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	_	1, 2, 3, 4					_			1000 282 282 164 227 149		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003					1,	2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-		-			1000 282 282 164 227		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002					1,	2, 3, 4	=	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	-			1000 282 282 164 227 149 774 837		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC				282	1,	2, 3, 4	-	1, 2, 3, 4		1, 2, 3, 4	-	1, 2, 3, 4		774		1, 2, 3, 4	_			1000 282 282 164 227 149 774		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003		1000		282 FY97	1,	2, 3, 4 282 FY98	-	1, 2, 3, 4 164		1, 2, 3, 4 227	-	1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 774 837		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2000 FY 2001 FY 2002 FY 2003 TC		FY96 1, 2, 3, 4		282	1,	2, 3, 4		1, 2, 3, 4		227	_	1, 2, 3, 4		774		837		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT =====>		1000		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98	_	1, 2, 3, 4 164		1, 2, 3, 4 227	_	1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 282 164 227 149 774 837 3715		
	FY 1997 FY 1998 FY 1999 FY 2001 FY 2002 FY 2003 TC OUTPUT> FY 1996 & PRIOR FY 1997		FY96 1, 2, 3, 4		282 FY97	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164		1, 2, 3, 4 227		1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 282 164 227 149 774 837 3715 TOTAL 1000 282		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1998		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98	-	1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227		1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715 TOTAL 1000 282 282		
	FY 1997 FY 1999 FY 1999 FY 2001 FY 2002 FY 2003 TC  OUTPUT ====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164		1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715 TOTAL 1000 282 282 164		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1996 FY 1998 FY 1999 FY 1999 FY 2000		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227		1, 2, 3, 4		774 FY02		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715 TOTAL 1000 282 282 282 262 164		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT=====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02 1, 2, 3, 4		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 3774 837 3715 TOTAL 1000 282 282 164 227 149		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2001 FY 2001 FY 2001		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02		837 FY03 1, 2, 3, 4		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715  TOTAL 1000 282 282 164 227 149 774		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT=====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2000 FY 2001		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4	-	1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02 1, 2, 3, 4		1, 2, 3, 4 837		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715 TOTAL 1000 282 282 282 164 227 149 774 837		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2001 FY 2001 FY 2001		FY96 1, 2, 3, 4	_	282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02 1, 2, 3, 4		837 FY03 1, 2, 3, 4		1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715  TOTAL 1000 282 282 164 227 149 774		
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2001 FY 2001 FY 2001		FY96 1, 2, 3, 4		FY97 1, 2, 3, 4 282	1,	2, 3, 4 282 FY98 2, 3, 4		1, 2, 3, 4 164 FY99 1, 2, 3, 4		1, 2, 3, 4 227 FY00 1, 2, 3, 4	-	1, 2, 3, 4		774 FY02 1, 2, 3, 4		837 FY03 1, 2, 3, 4		TC 1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715  TOTAL 1000 282 282 164 227 149 774 837 3715		P-3A
	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 TC  OUTPUT> FY 1996 & PRIOR FY 1997 FY 1999 FY 2000 FY 2001 FY 2000 FY 2001 FY 2002 FY 2002 FY 2002 FY 2003		FY96 1, 2, 3, 4		282 FY97 1, 2, 3, 4	1,	2, 3, 4 282 FY98 2, 3, 4	AGE	1, 2, 3, 4 164 FY99 1, 2, 3, 4	17	1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02 1, 2, 3, 4		837 FY03 1, 2, 3, 4		TC 1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715 TOTAL 1000 282 282 282 164 227 149 774 837	IED	P-3A
uantities are based of	FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2001 FY 2003 TC  OUTPUT =====> FY 1996 & PRIOR FY 1997 FY 1998 FY 1999 FY 2001 FY 2001 FY 2001	ng	FY96 1, 2, 3, 4		FY97 1, 2, 3, 4 282	1,	2, 3, 4 282 FY98 2, 3, 4	AGE	1, 2, 3, 4 164 FY99 1, 2, 3, 4	17	1, 2, 3, 4 227 FY00 1, 2, 3, 4		1, 2, 3, 4		774 FY02 1, 2, 3, 4		837 FY03 1, 2, 3, 4		TC 1, 2, 3, 4		1000 282 282 164 227 149 774 837 3715  TOTAL 1000 282 282 164 227 149 774 837 3715	IED	P-3A

CLASSIFICATION: UNCLASSIFIED																							
3A	_		INDIVIDUAL	MODIFICAT	ION		-		-	-				-	-				-		-	FEBRUARY	1997
ODIFICATION TITLE: HM&E ITEMS UNDER 2	м		INDIVIDUAL	IIIODII IOAT																		LDIOAKI	1331
ODELS OF SYSTEM AFFECTED: BOAT DAVI																					+		
ESCRIPTION/JUSTIFICATION: The hydraulic		ith single arm	davits will be re	eplaced wth	new mehanic	al shock abs	orber and tv	vo speed w	rinch.														
DEVELOPMENT STATUS/MAJOR DEVELOPMENT	NT MILEST	ONES:																		TO	то		
					FY 96															COMP	COMP	TOTAL	TOTAL
				QTY	& PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																							
RDT&E			1						1										1		1	0	0.0
PROCUREMENT QUANTITY				2					1				1									0	0.0
INSTALLATION KITS	1	1	1		1	1			1				1		1				1		1	0	0.0
INSTALLATION KITS NONRECURRING	- 1	1	1		l .		1		1	l			1		1				Į.		1	0	0.0
EQUIPMENT	1	1	1		0.5	1	1		1	1		1	1		1	1			1		1	0	0.5
EQUIPMENT NONRECURRING	- 1	1	1	·	0.0	1	1		1			1	1	1	1	1			1		1	0	0.0
ENGINEERING CHANGE ORDERS			T	1					1	1			1		1				1		1	0	0.0
DATA	-	1	1	1	1	1			1	1		1	1		1	1			1		1	0	0.0
TRAINING EQUIPMENT			1						1						1				1			0	0.0
SUPPORT EQUIPMENT	- '	1	1	1	1	1	1		1	1			1	1	1				1		1	0	0.0
OTHER		1	1		1								1						1		1	0	0.0
INTERIM CONTRACTOR SUPPORT	,	'	'																'		1		0.5
																					1		
NSTALLATION OF HARDWARE																							
										,					,								
FY96 EQUIPMENT				2	0.1																	2	0.1
FY97 EQUIPMENT				1					1										1		1	0	0.0
FY98 EQUIPMENT																						0	0.0
FY99 EQUIPMENT		1	1	1		1			1	1			1		1				1		1	0	0.0
FY 00 EQUIPMENT									1	l			1								1	0	0.0 0.0
FY01 EQUIPMENT FY 02 EQUIPMENT																						0	0.0
FY03 EQUIPMENT	1	1	1	1	1	ı	1		1	1		1	1	1	1	1			1		1	0	0.0
TO COMPLETE		- 1	-1			l	1		1				1	1	1				1		1	0	0.0
TO COMPLETE	1	1	1		ı	1	1		1	1		1	1		1	1			1		1	1	0.0
TOTAL INSTALLATION COST		1		2	0.1	0	0.0	0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0	0.0	0.0	2	0.1
TOTAL PROCUREMENT COST				0	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0	0	0	0.0	0	0.0		0.5
FOTAL COST				0	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0	0.0	0	0.0	0	0.0		0.6
METHOD OF IMPLEMENTATION: AIT	_					ADMINISTR	ATIVE LEAS	TIME.	1	9 MONTH			ODUCTION	LEADTIME	. 40 MC***	rue			1		1	+	-
CONTRACT DATE:	DD	IOR YEAR:	Jun-90	1		CURRENT		/IIWIE.		BUDGET		PR	ODUCTION	LEADTIME	BUDGET				1		1	1	1
PRODUCTION DELIVER DATE:		IOR YEAR:	Dec-91			CURRENT				BUDGET		1	1		BUDGET				1		1	1	1
NODOCHON DELITER DATE.			530-91			COLLICEITI			1	DODGET					DODGET				1		1	1	
NSTALLATION SCHEDULE:	1	1	1	1	1	1	1		1	1	1	1	1		1	1			1		1	1	1
INPUT =====>			FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC			1	I
	_		1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL		1
				-						-												_	
FY 1996 & PRIOR			1 1																		2		
OUTPUT ====>			FY96		FY97		FY98		FY99		FY00		FY01		FY02		FY03		TC				
			1, 2, 3, 4	_	1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4		TOTAL	_	
									_										_			,	
FY 1996 & PRIOR			1 1																		2		
			1			1			1	1		1	1		1	1			1		1	1	1
		- 1	1			1	1		1	1		1	1	1	1	1			1		1	1	P-3A
			1				ITEM	21	1	PAGE	18		1		_		_		CI ACCITIO	ATION: UNC	LACCIFIED		i-3A
				1	1	l	III CIWI	41	1	- AGE	10		1		1				CLASSIFIC	ATION: UNC	LAGGIFIED	_	1

CLASSIFICATION:																							
		UNCLASSI	FIED																				
23A				INDIVIDU	AL MODIFICA	ATION																FEBRUAR	RY 1997
MODIFICATION TITLE: HI																							
MODELS OF SYSTEM AFF	FECTED: HM&E SAF	ETY ALTS																					
DESCRIPTION/JUSTIFICA	ATION:																						
DEVELOPMENT STATUS/	MAJOR DEVELOPME	NT MILEST	ONES:																				
																				TO	TO		
						FY96														COMP	COMP	TOTAL	TOTAL
					QTY	& PRIOR	QTY	FY 97	QTY	FY 98 QT	FY 99	QTY	FY 00	OTV	FY 01	QTY	FY 02	OTV	FY 03	QTY	COST	QTY	COST
				_	Q.I.	a r Klok	WIII	1137	Q.I.	1130 Q1	11 33	Q I I	1100	QII	1101	Q I I	1102	Q11	1103	QII	0001	QII	0001
FINANCIAL PLAN (IN MIL	LIONS)																						
RDT&E																						0	0.0
PROCUREMENT																						0	0.0
QUANTITY					2																	2	0.0
INSTALLATION KITS													1									0	0.0
INSTALLATION KITS NO	NRECURRING		,	,	1				,	1		1	1	1	'							0	0.0
EQUIPMENT		1 1			1	0.8		1 1	1	1	1	1	1	1	1 1		1		1		1	0	0.8
EQUIPMENT NONRECUE	PRINC	1		- 1	1	0.0		1		1	- 1	1	1	1	1		1				1	0	0.0
ENGINEERING CHANGE			1	1	1	1			1		1	1	1									0	0.0
	UNDERS	1			1			1 1			-1	1	1	1	1							-	
DATA			1					, ,		1	1		1									0	0.0
TRAINING EQUIPMENT																						0	0.0
SUPPORT EQUIPMENT																						0	0.0
OTHER																						0	0.0
INTERIM CONTRACTOR	SUPPORT		,						,	,												0	0.0
INSTALLATION OF HARD													1										
												_	-									1	
					-																		
FY96 EQUIPMENT		1					AIT	2.1					1									2	2.1
FY97 EQUIPMENT																						0	0.0
FY98 EQUIPMENT																						0	0.0
FY99 EQUIPMENT																						0	0.0
FY 00 EQUIPMENT																						0	0.0
FY01 EQUIPMENT			,						,	,												0	0.0
FY 02 EQUIPMENT		1			1	1		1 1	1	1		1	1									0	0.0
FY03 EQUIPMENT																							
TO COMPLETE		1			1			1			-	1	1									0	0.0
TO COMPLETE			1						1	1		1											0.0
								L															
TOTAL INSTALLATION CO	OST				0	0.0	0	2.1	0	0.0 0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0			2	2.1
		1			1	1						1	1	1	1		1		1		1		
																							0.8
TOTAL PROCUREMENT C	COST				0	0.8		0.0	0	0.0 0	0.0	0	0.0	0	0	0	0	0	0.0		0.0	0	0.0
	COST				0	0.8		0.0 2.1	0	0.0 0 0.0 0	0.0	0	0.0	0	0.0	0.0	0.0	0	0.0		0.0	0	2.9
TOTAL PROCUREMENT C	COST				0																		
TOTAL COST		VE			0	0.8	ADMINISTE	2.1	0	0.0 0	0.0		0.0	0	0.0			0	0.0	IS			
TOTAL COST  METHOD OF IMPLEMENT			PRIOR YEAR	Mar.ºo	0	0.8		2.1 RATIVE LEA	0	0.0 0 9 MON	0.0		0.0	0 CTION LEA	0.0 DTIME:	0.0		0		is			
TOTAL COST       METHOD OF IMPLEMENT CONTRACT DATE:	TATION: COMPETITION	The state of the s	PRIOR YEAR:	Mar-89	0	0.8	CURRENT	2.1 RATIVE LEA YEAR:	0	0.0 0 9 MON BUDGI	0.0 HS T YEAR:		0.0	0 CTION LEA	0.0 DTIME: BUDGET YE	0.0 EAR 2:		0	0.0	is			
TOTAL COST  METHOD OF IMPLEMENT	TATION: COMPETITION	The state of the s	PRIOR YEAR: PRIOR YEAR:	Mar-89 Mar-90	0	0.8		2.1 RATIVE LEA YEAR:	0	0.0 0 9 MON BUDGI	0.0		0.0	0 CTION LEA	0.0 DTIME:	0.0 EAR 2:		0	0.0	is			
TOTAL COST  METHOD OF IMPLEMENT CONTRACT DATE: PRODUCTION DELIVER D	TATION: COMPETITION	The state of the s			0	0.8	CURRENT	2.1 RATIVE LEA YEAR:	0	0.0 0 9 MON BUDGI	0.0 HS T YEAR:		0.0	0 CTION LEA	0.0 DTIME: BUDGET YE	0.0 EAR 2:		0	0.0	is			
TOTAL COST	TATION: COMPETITION  DATE:	The state of the s		Mar-90	0	0.8	CURRENT	2.1 RATIVE LEA YEAR: YEAR:	O NOTIME:	9 MON BUDGI	0.0 THS T YEAR:		PRODUC	0 CTION LEA	0.0 DTIME: BUDGET YE BUDGET YE	0.0 EAR 2:	0.0	0	0.0 12 MONTH	is			
TOTAL COST  METHOD OF IMPLEMENT CONTRACT DATE: PRODUCTION DELIVER D  NSTALLATION SCHEDUL	TATION: COMPETITION	The state of the s		Mar-90		0.8	CURRENT	2.1 RATIVE LEA YEAR: YEAR:	O DTIME:	9 MON BUDGI BUDGI	0.0  HS T YEAR: T YEAR:		PRODUC	0 CTION LEA	0.0 DTIME: BUDGET YE BUDGET YE	0.0 EAR 2:	0.0 FY03	0	0.0 12 MONTH	is	0.0		
TOTAL COST	TATION: COMPETITION  DATE:	The state of the s		Mar-90		0.8	CURRENT	2.1 RATIVE LEA YEAR: YEAR:	O DTIME:	9 MON BUDGI	0.0 THS T YEAR:		PRODUC	0 CTION LEA	0.0 DTIME: BUDGET YE BUDGET YE	0.0 EAR 2:	0.0	0	0.0 12 MONTH	is			
TOTAL COST  METHOD OF IMPLEMENT CONTRACT DATE: PRODUCTION DELIVER D  NSTALLATION SCHEDUL	TATION: COMPETITION  DATE:	The state of the s		Mar-90		0.8	CURRENT	2.1 RATIVE LEA YEAR: YEAR:	O DTIME:	9 MON BUDGI BUDGI	0.0  HS T YEAR: T YEAR:		PRODUC	0 CTION LEA	0.0 DTIME: BUDGET YE BUDGET YE	0.0 EAR 2:	0.0 FY03	0	0.0 12 MONTH	is	0.0		
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FY03 EQUIPMENT	1			1 1				1 1									1						0	0.0
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TOTAL COST	1	1 1		1 1		1	1	1 1		0.0	1	1.2		0.0	ı	0.0	1	0.0		0.0		0.0		1.2
METHOD OF IMPLEMENTATION	4:	AIT					ADMINIS	TRATIVE LE	ADTIME:	9 MTHS				PRODU	CTION LEAD	TIME:	6 MONTHS							
CONTRACT DATE:			PRIOR YEAR:		'	'	CURREN	T YEAR:			BUDGET '					BUDGET YE			Oct-98			-		1
PRODUCTION DELIVER DATE: INSTALLATION SCHEDULE:			PRIOR YEAR:				CURREN	T YEAR:			BUDGET	YEAR:				BUDGET YE	AR 2:		Mar-99					
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	FY 2003																							
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	FY 2003																							
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	FY 2003			- 1		1			24 21		PAGE	21								OI ACCIT	CATION: U	INCL ASCIT	IED.	P-3A

CLASSIFICATION: UNCLASSIFIED																					
23A		INDIVIDUAL M	ODIFICATION																	FEBRUARY 19	197
ODIFICATION TITLE: HM&E ITEMS UNDER 2M		III DONE III	ODII IOATTON																	- EBROART R	
IODELS OF SYSTEM AFFECTED: SALINITY INC	ICATORS																				
ESCRIPTION/JUSTIFICATION: Replacement of		the SSR 688 Class	e with the new MI	S15103 ie	required to	most the SH	IDAI T echo	dula Su	hmarinee	have a nee	d to monit	or the									
uality of water which is required for operation of																					
EVELOPMENT STATUS/MAJOR DEVELOPMEN		esent systems are	olu aliu liaru to	support, and	will flot aut	quatery sup	port the ne	w anu up	graueu e	iectronic w	ater require	illelits.						то	то		
EVELOPMENT STATUS/MAJOR DEVELOPMEN	MILES I UNES		FY 96																COMP		TOTAL
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			QTY & PRIOR	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	FY 02	QTY	FY 03	QTY	COST	QTY	COST
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E			,																	0	0.0
PROCUREMENT			1		1												1			1	0.0
QUANTITY	- '	1	1	-1	1	1					1		- 1	-			1	1		0	0.0
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ENGINEERING CHANGE ORDERS	1	1	1	1	1	1					1						1	1		0	0.0
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SUPPORT EQUIPMENT				1	1						1						1	_	1	0	0.0
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NSTALLATION OF HARDWARE																					
FY96 EQUIPMENT & PRIOR																				0	0.0
FY97 EQUIPMENT				1	0.4															1	0.4
FY98 EQUIPMENT																				0	0.0
FY99 EQUIPMENT			1			1											1			0	0.0
FY 00 EQUIPMENT					1												1			0	0.0
FY01 EQUIPMENT		- 1		-	1	1					,						1			0	0.0
FY 02 EQUIPMENT																					
FY03 EQUIPMENT	1			1	1	1					1	1					1			0	0.0
TO COMPLETE				-	1						1				-		1			ő	0.0
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TOTAL INSTALLATION COST			0.0		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.4
TOTAL INSTALLATION COST			0.0	1	0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.4
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TOTAL PROCUREMENT COST			0.5	1	0.0	1	0.0		0.0		0.0		0.0		0.0		0.0	1	0.0		0.5
TOTAL COST			0.5		0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.9
					1																
METHOD OF IMPLEMENTATION: AIT					RATIVE LE	ADTIME: 9					PRODUCTION	ON LEADTI									
CONTRACT DATE:	PRIOR YEAR: May			CURREN				BUDGET					BUDGET Y								
PRODUCTION DELIVER DATE:	PRIOR YEAR: May	-90		CURRENT	Γ YEAR:			BUDGE1	T YEAR:				BUDGET Y	EAR 2:							
NSTALLATION SCHEDULE:																				'	
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FY 1996 & PRIOR			1														1		1		
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OUTPUT ====>		FY96	FY97	1	FY98	1	FY99		FY00		FY01		FY03	1	FY03		TC				
33 3	1 1	1, 2, 3, 4	1, 2, 3, 4	_	1, 2, 3, 4	1	1, 2, 3, 4		1, 2, 3, 4				1, 2, 3, 4		1, 2, 3, 4		1, 2, 3, 4	1	TOTAL		
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FY 1996 & PRIOR			1		1														1		
																					P-3A
					ITEM	21		PAGE	22					_	_		CLASSIFIC				

### **CLASSIFICATION:**

## UNCLASSIFIED

		BUDGET I P-40	TEM JUSTIF	ICATION S	SHEET		DATE: February 1997	
APPROPRIATION/BUDGET ACTIVI					P-1 ITEM NO	MENCLATU	RE	
OTHER PROCUREMENT, NAV BA: 1 SHIPS SUPPORT EQUI					SURFACE	IMA BLI#0	98300	
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$1.4	\$2.4	\$2.0	\$0.1	\$1.8	\$5.1	\$2.1	\$2.2

### THIS LINE ITEM IS COMPOSED OF TWO PROGRAMS:

- A. Intermediate Maintenance Activity (IMA) (Ashore)
- B. Support and Test Equipment Engineering Program (STEEP) Program requirements (without funds) for FY98 and outyears are being transferred to the 3M Program (81G4) in accordance with OPNAV Sponsor direction.

### Intermediate Maintenance Activity (IMA) Improvement Program:

The IMA Improvement Program funds are used to procure industrial plant equipment for activities which provide maintenance capabilities for sailors to maintain surface and sub-surface vessels of the U.S. Navy. These activities ashore include the following: Shore Intermediate Maintenance Activities (SIMA), Trident Refit Facilities (TRF), Regional Repair Centers, Subase Repair Activities, and Air Cushion Unit Facilities. With the reduction of numbers of tenders, the fleets have initiated Battle Force IMA (BFIMA) to increase self-sufficiency of the Battle Groups. Funds will be used to procure plant equipment to satisfy core capability requirements. The size and function of each facility and their work spaces are dictated by the specific ship classes and number of ships located at the homeport of the Battle Group.

Modern Industrial Plant Equipment (IPE), test equipment, and associated support equipment must be procured and installed or available for use in the work spaces. Procurement of this equipment is phased to coincide with military construction milestones. SIMAs are inspected periodically to determine the need for refurbishment or replacement of existing equipment. The SIMA modernization program provides the replacement of IPE based upon the inspections. The Immediate Need Items are procured for multiple IMAs to improve productivity and add new capabilities, and to maintain existing capabilities where machinery becomes uneconomical to repair. New equipments are procured to satisfy realignment of capabilities at IMAs.

P-1 SHOPPING LIST

**CLASSIFICATION:** 

ITEM NO.22 PAGE NO.-1

#### **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET (EXHIBIT P-40 cont)		February 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
Other Procurement, Navy/BA-1 Ships Support Equipment	P-1 Item: Surface IMA	

### **STEEP**

Program requirements (without funds) for FY98 and outyears are being transferred to the 3M Program (81G4) in accordance with OPNAV Sponsor direction.

The STEEP Program provides support and test equipment for intermediate Maintenance activities and aboard most combatants. Funding of this program to requirement levels results in lower maintenance costs and enables readiness of respective electronic equipment to be maintained. Deploying automatic test (ATE) and diagnostic equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit card assemblies at the site of the operational failure. The STEEP and 2M Program (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding Fleet OPTAR costs and averting CASREPs. For FY 96 and FY 97, funding will be used to procure and deploy non-aviation Test Program Sets (TPSs) and Gold Disks.

P-1 ITEM NO. PAGE NO. 2

A. DATE February 1997 PROGRAM COST BREAKDOWN P-5 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE Surface IMA/81K6 Other Procurement, Navy/BA-1 Ships Support Equipment **ELEMENT OF COST** IDENT CODE FΥ <u>1996</u> FΥ <u>1997</u> FΥ 1999 1998 QTY **TOTAL COST** QTY **TOTAL COST** QTY TOTAL COST QTY TOTAL COST (1) (2) (6) (8) (9) (9) (3) (7) **LOGISTICS N4** K6100 TRF BANGOR 100 K6100 TRF KINGS BAY 100 K6100 EVERETT 0 K6100 NORFOLK 270 970 336 2026 57 K6100 IMMEDIATE NEED ITEMS 612 K6010 SUPPORT & TEST EQUIP ENGINEERING PROGRAM(STEEP) ANALOG/DIGITAL TPS/GOLD DISK 156 331 HAWC(AN/USM-465) UPGRADE 313 274 TAT TPS CONVERSION TO CASS 310 TOTAL SURFACE IMA 1385 2387 2026 57

DD Form 2446, JUN 86 ITEM NO. 22 PAGE NO. 3 EXHIBIT P-5

BUDGET ITEM JUSTIFICATION SHEET										DATE:							
			P-40	ı									Febr	uary 1	997		
APPROPRIATION/B	UDGE	T ACTIVI	TY						P-1 I	TEM NO	MEN	CLATUR	E				
OTHER PROCUR BA: 1 SHIPS SUF				NT							Rad	iologic	al Co	ntrols	81G	Z	
2711 1 01111 0 001			1997 1998		998	1999		2000		2001		2002		2003			
QUANTITY																	
COST	1																
(In Millions)	\$	0.1	\$	0.2	\$	0.2	\$	0.3	\$	0.2	\$	0.2	\$	0.2	\$		0.2

The Radiological Affairs Support Office (NAVSEADET RASO), a Detachment of SEA 07R, supports Navy Industrial Radiological Controls Programs, provides radiological analyses of environmental samples for Navy radiation protection programs and accident/incident response, as well as providing personnel and equipment for the Navy RADCON team for response to a nuclear weapons accident/incident or similar radiological event. Additionally, NAVSEADET RASO trains all Navy and USMC Industrial Radiation Safety Officers through the conduct of formal official courses taught at the detachment. In support of their stated responsibilities, NAVSEADET RASO is required to maintain state-of-the-art field and mobile radiation detection, identification, and measurement equipment for both fixed site and remote emergency response operations. The associated instrumentation is used extensively for routine work and instructional purposes, yet must be ready for rapid deployment in case of emergencies. As a result, there is a continuing need to insure adequate redundancy of instruments to prevent a degradation or loss of capability in any area, to further support procurement of technologically advanced instrumentation, and to ensure that a fully equipped and air transportable Navy RADCON team is available for rapid deployment.

NAVSEA provides all Navy funding to support the National Council on Radiation Protection and Measurements (NCRP). NCRP is a Congressionally chartered organization which collects, analyzes and disseminates, in the public interest, information and recommendations about radiation protection and measurements. NCRP recommendations for national human radiation exposure limits, environmental release/cleanup standards, and pathway analyses for human radiation exposures are used by federal and state regulatory agencies to define their standards for compliance. Recommendations of the NCRP have major legal and Congressional influence during consideration of new federal radiation protection statutes. Navy's support to NCRP ensures prompt and real-time awareness of areas of interest that impact programs which include Naval Reactors, nuclear medicine at Navy hospitals and clinics, Navy nuclear weapons programs, Navy research; and industrial operations, including shipyards.

FY 96 funding and beyond provides resources to ensure Navy's goals of reducing personnel exposure to ionizing radiation to levels as low as reasonably achievable (ALARA) as well as protecting the general public and the environment from radiation exposure caused by previous Navy operations are met. Recent decisions by Base Closure and Realignment Commissions have resulted in increasing numbers of Navy shore activities being decommissioned with plans to transfer ownership to local civilian entities with no restrictions on their future use. Prior to release of these facilities which include former Naval shipyards, Naval air Stations, and ammunition depots; extensive radiological surveys of the sites are conducted to ensure that no residual radioactivity caused by prior Navy operations remains. Anomalies discovered during these surveys often require NAVSEADET RASO personnel to bring portable state-of-the-art radiation instruments to the sites to adequately characterize the nature of apparent zones of elevated (higher than naturally occurring background) radiation. As technological improvements in radiation instrumentation progress the capability of NAVSEADET RASO personnel instruments must be upgraded to expeditiously and adequately resolve concerns raised by these anomalous findings.

DD Form 2454, JUN 86

P-1 SHOPPING LIST ITEM NO.-23 PAGE NO.- 1

**CLASSIFICATION:** 

	DATE:										
								February 1997			
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT, NAVY						IATURE ELECTR	RONIC TEST AND REPAIR				
BA: 1 SHIPS SUF		BLI: 098800 81G4									
	1996	1997	1998	1999	2000	2001	2002	2003			
QUANTITY											
COST (In Millions)	\$1.0	\$0.9	\$0.5	\$0.5	\$0.5	\$0.5	\$0.6	\$0.6			

NOTE: During PR-98, the Sponsor N431 deleted the Support and Test Equipment Engineering Program (STEEP) funding and resourced it in FY 98 and out to Surface IMA (Ashore) and recommendated that all STEEP requirements be identified here in the 2M repair program. Funding for STEEP is not being transferred to the 2M repair program, but will remain in the Surface IMA Program (81K6) for IMA MILCON projects and IMA upgrades.

1. The Navy 2M Program provides sailors with the capability to repair electronic circuit card assemblies (CCAs) and electronic modules (EMs) at Intermediate Maintenance Activities and aboard most combatants. Funding to requirement levels will enable Navy cost avoidance annually by Fleet maintenance levels executing CCA repairs in lieu of more expensive depot sites. The services provided by 2M allow new repair tools to be selected, deployed, and supported in the Fleet in time to support new CCA technologies. 2. The STEEP Program provides support and test equipment for intermediate Maintenance activities and aboard most combatants. Funding of this program to requirement levels results in lower maintenance costs and enables readiness of respective electronic equipment to be maintained. Deploying automatic test (ATE) and diagnostic equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit card assemblies at the site of the operational failure. The STEEP and 2M Program (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding Fleet OPTAR costs and averting CASREPs. For FY 96 and outyears, funding will be used to procure and deploy non-aviation Test Program Sets (TPSs) and Gold Disks. Outyear funding will be used to procure and deploy commercial equipment to test and diagnose new electronic technologies being introduced into the Fleet. The STEEP and 2M Programs (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding OPTAR costs and averting CASREPs due to long (up to 120 day) logistics delays. Due to changing technologies, CCAs currently in the Fleet range in price from \$500 to \$40K each. Currently deployed repair tools, equipment and repair processes will not support repair of CCAs containing advanced technologies such as surface mount and leadless ship carrier. This technology is now becoming prevalent in commercial and military equipment.

> P-1 SHOPPING LIST ITEM NO.24 PAGE NO.- 1

CLASSIFICATION: UNCLASSIFIED

# P-1 ITEM NOMENCLATURE REACTOR POWER UNITS (81HN)

# **CLASSIFIED SUBMIT**

ITEM NO. PAGE NO.

# P-1 ITEM NOMENCLATURE REACTOR COMPONENTS (81HR)

# **CLASSIFIED SUBMIT**

ITEM NO. PAGE NO.

	BUDGET ITEM JUSTIFICATION SHEET									
							FEBRUARY 1	997		
APPROPRIATION/BUDGE	T ACTIVITY				P-1 ITEM NOME	NCLATURE	(81HY)			
OP,N BA 1: Ships S	Support Equipm	ent			Diving and Sa	lvage Equipme	ent (BLI 1130)			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST										
(In Millions)	\$ 7.8	\$ 8.5	\$ 4.9	\$ 5.6	\$ 5.5	\$ 5.7	\$ 5.8	\$ 5.9		

#### **DIVING - (N873)**

This request provides funding for procurement of modern equipment to replace the Navy's archaic diving systems. The demand for divers' services for salvage, ship husbandry, repair and sanitizing work is rapidly increasing. The requested funding buys diving hardware which increases the efficiency and safety of the working diver. Program objectives are to: (1) provide increased safety for diver decompression and better recompression chamber patient monitoring capability, (2) increase underwater ship maintenance capabilities, (3) improve quick response capability, and (4) standardize the configuration of diving systems in the Fleet. The major items of procurement are:

#### HY106 Lightweight Dive System (LWDS):

a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 60 feet of seawater (FSW) for up to a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. The LWDS consists of four subsystems; Diver Life Support System (DLSS), Diver Equipment, a Spare Parts Kit, and 5000 PSI Flask Replacements (see below for contents of subsystems). The Diver Equipment will interface with all Navy certified, air surface supplied diving systems. Required I/O is 40.

#### DLSS:

- 1. Compressor Package Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.
- 2. Composite Flasks Racks of composite HP cylinders; with manifolds and interconnecting hoses.
- 3. Volume Tank Assembly mounted on separate frame; with interconnecting hoses.
- 4. Control Console Suitcase size with air supply and pneumofathometer control.

#### Diver Equipment:

1. Full Facemask (FFM) - Lightweight, low volume FFM with communications that interface with fielded communications sets. Each set includes 3 FFMs.

1

2. Harness Assembly - Diver harness with manifold block. Each set includes three Harness Assemblies.

### 5000 PSI Flask Replacement:

This item replaces the composite flasks used in the LWDS which have reached their 15 year service life.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

Exhibit P-40 Budget Item Justification Sheet

	BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipm	ent	Diving and Salvage Equipmer	nt (BLI 1130)

HY107 Portable Recompression Chamber:

- a. Portable Chamber: The Paracel Transportable Recompression Chamber System provides an effective two-man evacuation, transport, treatment, and transfer under pressure capability in order to benefit a diver suffering a pressure related ailment requiring urgent hyperbaric treatment. This is the lightest, most transportable system available to the U. S. Navy. Required I/O is 16.
- b. Engineering Change Proposals
- c. This item modified existing systems with an environmental system to allow operation in both hot and cold extreme temperature environments. I/O is 16.

HY123 Flyaway Dive System (FADS) III: The FADS III is a matrix of components designed to support a manned diving to 300 fsw. It is made up of two major subsystems, the High Pressure (H.P.) Air System and the Mixed Gas System. The air system consists of a 5000 psi air rack using lightweight composite flasks, a portable diver's air console, and a 5000 psi air compressor packaged for flyaway applications. The mixed gas subsystem consists of H.P racks for containment of various gas mixes required for diving operations, a mixed gas diving console, and a gas transfer mixmaker system for charging mixed gas flasks. The matrix concept is designed to provide maximum flexibility in assembling equipment necessary to support a dive mission. Required I/O's are 20 High Pressure Air Systems and 4 Mixed Gas Systems.

HY132 Standard Recompression Chamber: The Standard Recompression Chamber is a standardized, conventional full-size chamber designed to be built using standard commercial specifications and standards. The chamber is capable of providing a full range of recompression treatment to two patients and two attendants. It will replace aging and difficult to maintain recompression chambers that will be retired due to fatigue and material flaws. Required I/O is 21 standard chambers and 1 chamber without gas storage.

HY176 Oil Free Compressors: This item replaces high pressure Air Compressors in existing diver's life support systems which have reached the end of their service life. Required I/O is 64.

HY177 Air Purification Units: This item is used when charging diver's life support system (DLSS) flasks or inserted inline in the DLSS to purify and monitor diver's breathing air. It will enhance diver's safety by providing constant monitoring of diver's breathing air and eliminate the need for the semi-annual air samples of all diver's breathing air compressors. Required I/O is 500 units.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipment	Diving and Salvage Equipmer	nt (BLI 1130)

SALVAGE: (N869)

This request provides program support for the procurement of critical salvage and underwater ship repair items. Public Law 513 (80th Congress, 10 USC 7361 ET SEQ) authorizes the Secretary of the Navy to provide, by contractor or otherwise, necessary salvage and diving equipment, services and facilities for public, private, and military vessels upon such terms and conditions as he may, in his discretion, determine to be in the best interest of the United States.

The U. S. Navy Supervisor of Salvage maintains the Emergency Ship Salvage Material (ESSM) System which consists of a network of bases which maintain, control, and issue material for salvage operations, underwater ship husbandry operations, pollution abatement operations, ocean engineering projects, special authorized projects, and equipment for use in national emergencies. The major bases are located in Williamsburg, Virginia; Stockton, California; Singapore; and Livorno, Italy. Satellite bases having smaller allowances are maintained at Aberdeen, Scotland; Sasebo, Japan; Pearl Harbor, Hawaii; and Bahrain. This system provides the Nation's first line of defense for major pollution abatement operations and the Navy's second line of defense for salvage operations. The equipments to be procured are:

HY050 Synthetic Line: This line is used for lifting, mooring, towing, rigging, and in conjunction with the remotely operated vehicles at the salvage site. Sufficient quantities do not exist in the ESSM system for adequate operational support. Required I/O is 200.

HY062 ORION/D2/CURV Sonar System: These sonars are used on the ORION, DEEP DRONE, and CURV III remotely operated vehicles to locate items in a debris field, locate hull sections, and avoid obstacles. The sonar functions as the eyes of the vehicle. Total I/O is 12 (10 operational plus 2 spares).

HY116 Portable Submersible Pumps: The 6" hydraulic submersible salvage pump is designed for high lift with high discharge pressure. The pumping system is packaged in several containers for ease of shipment and handling at the casualty site. The pump with attached hoses, can be lowered into flooded spaces through 12-1/2" or larger accesses, or can be handcarried into confined spaces. It is hydraulically driven by the standard ESSM Model hydraulic power unit. Required I/O is 66.

HY131 ROV Handling Systems: These systems are used to launch and recover remotely operated vehicles from ships of opportunity. Additionally, they are used to tend the deployed cable, compensate for ship motion, monitor cable tension, and store cable. Required I/O is 10 (5 operational and 5 spares).

P-1 SHOPPING LIST ITEM NO. PAGE NO.

**Exhibit P-40 Budget Item Justification Sheet** 

BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
		FEBRUARY 1997
	P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipment	Diving and Salvage Equipmen	nt (BLI 1130)

HY134 Lift Line Spooler: Lift Line Spoolers are used to deploy lift lines in deep ocean salvage operations. They are designed for use by the CURV III and DEEP DRONE ROVs. Required I/O is 6 (4 operational plus 2 spares).

HY135 U/W Ship Husbandry ROV: This is the first Remotely Operated Vehicle to be used to perform underwater ship husbandry tasks such as pre-cleaning, post-cleaning, paint condition assessment, and hull damage inspections. These vehicles will reduce the requirement for manned diving to conduct inspection work. Required I/O is 8.

HY136 30 KIP FADOSS: The 30 KIP FADOSS is used to salvage objects from deep water. The primary function is to reduce the dynamic loads that are encountered due to ship motion. These systems will handle recovery of equipment up to a weight of 30,000 pounds. Required I/O 4.

HY137 Electrical Protection Monitor: These systems will be used with underwater electric equipment to protect divers from electric shock hazards in the event a cable is cut or equipment is grounded. Required I/O is 16.

HY138 Salvage Air Van: The Salvage Air Van is equipped to support salvage operations requiring large quantities of compressed air for restoration of lost buoyancy. Required I/O is 4.

HY139 Digital Enhanced TV: This TV system greatly improves the resolution and therefore the utility of underwater inspections recorded in turbid waters. Because underwater visibility in all USN ports is poor, enhancing images is necessary to provide inspection results which can be accurately analyzed by topside maintenance engineers. Required I/O is 19.

HY140 ROV Control Package: The ROV Control Package is used to control the various functions of the CURV III, DEEP DRONE, and ORION ROVs. Required I/O is 6 (3 operational plus 3 spares).

HY141 U/W Ship Husbandry Inspection System: This hardware will permit rapid transmission of underwater inspection results to topside engineers for damage assessment. It will preclude the necessity of recording and forwarding video tapes for subsequent evaluation and allow engineers to direct inspections from remote sites. Required I/O is 5.

HY142 Salvage Air Compressor: Salvage Air Compressors are utilized to provide large quantities of compressed air for restoration of lost buoyancy. Required I/O is 10.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipment	Diving and Salvage Equipmer	nt (BLI 1130)

HY143 Salvage Air Hose System: Salvage Air Hose systems are utilized in conjunction with the salvage air compressor to provide large quantities of compressed air for restoration of lost buoyancy. Required I/O is 10.

HY145 Cofferdam System: This system will contain a variety of cofferdams necessary to accomplish underwater repair tasks to hull plating, shafts, stern tubes and sea chests on several ship classes. The cofferdams are engineered structural habitats which provide a safe underwater dry environment for divers to work and require very little maintenance. Required I/O is 10.

HY146 Prop Grooming Kit: These kits will contain the tools necessary to repair minor propeller damage underwater. By accomplishing these repairs in-place, propeller removal and replacement can be avoided thereby saving maintenance funds and returning ships to service faster. Required I/O is 5.

HY147 ROV Telemetry System: The ROV Telemetry System is the communication link between the surface controller and the vehicle. Required I/O is 6 (3 operational plus 3 spares).

HY151 Closed Cycle Hull Cleaning System: This equipment will eliminate discharge of hull cleaning by-products into harbors. Current cleaning equipment cannot recover any of the discharge. This equipment will be required for environmental compliance. Required I/O is 5.

HY153 Tensiometer Systems: Tensiometers are used to measure the tension exerted on a beach gear ground leg or heavy lift system. Typically used in pairs, one system consists of two 200,000 pound capacity load sensing units with associated rigging and read-out meters. Required I/O is 18.

HY154 Water Purifiers: Water Purifiers are capable of converting salty, brackish, or biologically polluted water into potable water. The systems are fully marinized for use aboard a ship of opportunity, and are complete with all necessary power sources, hoses, chemicals, and associated support equipment. Required I/O is 12.

HY155 15 KW Generators: These generators are used to fill the power gap between the existing 5 KW and 30 KW generators. They are used aboard a ship and shore-side to provide general purpose electrical power during salvage and debeaching operations. The generators are a system consisting of a diesel powered, portable generating unit, a power distribution panel, and associated distribution apparatus. Required I/O is 25.

HY156 Salvage Vans: These vans are modified ISO 8 ft x 8 ft x 20 ft shipping containers equipped to store and ship portable salvage equipment to a vessel of opportunity in times of National emergency. Each van is complete with a humidity controlling device for prolonging equipment life during storage. The system includes all necessary rigging and handling equipment. Required I/O is 25.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

	BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipm	ent	Diving and Salvage Equipmer	nt (BLI 1130)

HY158 ROV Propulsion Systems: ROV propulsion systems provide main propulsion and control of remotely operated vehicles. These consist of electric and hydraulic thruster motors, thrusters, controllers, and interconnect cabling and power supplies. Required I/O is 8.

HY159 Sonar Dome Repair Kits: Provides special underwater tools necessary to repair rubber and glass reinforced plastic (GRP) sonar domes. Repairs include both non-structural (correcting self-noise problems) operations and structural (correcting ruptured or cracked domes) operations. Kits also contain tools necessary to remove and replace dome in the event repair is not possible. I/O is 4.

HY160 Underwater Ship Husbandry Gas Free Equipment: Kits provide environmental monitoring equipment to provide diving supervisors with real time data on air quality within a confined space such as a cofferdam or ballast tank. Monitoring the air allows divers to remove their helmets once inside the area and thereby increase productivity and reduce fatigue. I/O is 16.

HY161 Underwater Shaft Repair Kit: Provides tools necessary to repair and replace propulsion shafts underwater thereby eliminating the requirement for drydocking. Required I/O is 3.

HY162 Trash Pump System: The Trash Pump System consists of two each, portable, hydraulically driven, submersible pumps, complete with all necessary hydraulic and product delivery hoses. The pumps are capable of passing solid objects without damage to the system. Required VO is 25.

HY163 Towing Load Cells: Towing load cells are systems designed to monitor towline tensions during open ocean towing evolutions. They include tension measuring devices, telemetry systems, power supplies and all software and hardware required to maintain and operate them. Required I/O is 25.

HY164 Flyaway FADOSS System: This system consists of lightweight motion compensators, winches, rigging jewelry, and lines for lifting heavy objects off the sea floor. All of the components are designed to be flown to the salvage site and loaded aboard ships of opportunity. Required I/O is 8.

HY165 Underwater Welding Machines: Improved welding machines necessary to permit permanent underwater weld repairs to ship and submarine hull structure. Machines incorporated new technology to stabilize arc voltage and reduce equipment maintenance. I/O is 12.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

	BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipm	nent	Diving and Salvage Equipmen	nt (BLI 1130)

HY166 ROV Tool Package: This tool package is utilized by remotely operated vehicles to accomplish work on objects on the sea floor and in the water column. These systems consist of dual manipulators, control systems, video inspection systems, range measuring systems, power supplies, hydraulic power units, an ancillary end effectors. I/O is 8.

HY167 Flyaway Weld Van: This van is a portable workstation outfitted to support underwater welding operations. It is designed to be self-supporting at remote worksites and is sized to allow for air transportation in a majority of commercial aircraft. This transportation scheme is necessary to support worldwide emergent repair operations cost effectively. I/O is 3.

HY168 SHT Replacement Kits: Submarine Special Hull Treatment Tiles sustain damage below the waterline which cannot currently be repaired without drydocking. Kits will provide tools to remove damaged tiles, prepare the steel hull surface and replace tiles. In-water repairs will be equivalent to drydock repairs. I/O is 5.

HY169 UWSH Power Tools: These tools will replace the hydraulic tool sets designed and issued to Fleet divers in the 1970's with improved technology. This technology improvement will provide tools which are more environmentally compatible, offer greater power, lighter weight and reduced maintenance. I/O is 15.

HY170 LWT Hydraulic Power Unit (HPU): These units will provide hydraulic power to operate underwater diver tools such as impact wrenches, drills, and hull cleaning brushes. The HPU's are lightweight and portable to support mobile diving teams performing underwater ship husbandry repair tasks. Required I/O is 15.

HY171 Salvage Foam System: This system generates cast-in-place urethane foam to provide buoyancy necessary to reduce ground reaction in stranded vessels. The system consists of foam producing chemicals; blowing agents; chemical/blowing agent packaging, handling, storage, and transportation equipment; diver held foam mixing and application nozzle, chemical metering/delivery equipment, and necessary ancillary equipment. I/O is 6 systems.

HY172 Lightweight Beach Gear: Lightweight Beach Gear is a lightweight and highly portable system for exerting a retraction force on stranded vessels. The system shall include a ground leg consisting of anchors, stoppers, and interconnection lines; a purchase subsystem consisting of a block and tackle set, turning blocks, and purchase line; a modular winch; and all necessary interconnecting lines and fittings. Total I/O is 24.

HY173 Digital Still Cameras: Underwater still cameras for divers use during hull damage inspections. Digital cameras will enable divers to quickly view images to ensure they are correct before suspending diving operations. Repair activities will then be given images which can be forwarded electronically for review by cognizant technical authorities. I/O is 20.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

BUDGET ITEM (Con't)	USTIFICATION SHEET	DATE:
		FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	•
OP,N BA 1: Ships Support Equipment	Diving and Salvage Equipn	nent (BLI 1130)

HY174 Wastersleeve Inspection Systems: A non-destructive, non-intrusive inspection system which is inserted into a sea chest to measure and record the wastersleeve material condition. This inspection information is used to support condition based maintenance decisions regarding the necessity to replace worn, deteriorated or damaged wastersleeves. Total I/O required is 8.

HY175 Closed Cycle Blasting: System grit blasts underwater hull surfaces in preparation for underwater painting. Blast equipment uses standard commercial abrasives and collects grit and paint to comply with environmental standards. Grit blast surface preparation is necessary to obtain adequate adhesion of underwater applied paints used to arrest corrosion. I/O is 6.

81HY1 The project unit was used to pay current year funds for cancelled account vouchers. The money went into subhead 87PY.

 96
 97
 98
 99
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 Reserve
 \$235
 \$290
 \$235
 \$268
 \$113
 \$125
 \$126
 \$131

#### DIVING AND SALVAGE RESERVE EQUIPMENT - (N869)

In accordance with the Surface Warfare Plan of 26 July 1986 as amplified by CNO ltr 37/7U388746 of 29 Jun 1987, we are restructuring our Naval Reserve Procurement Plan to include outfitting with updated systems fully compatible with those used by the active forces. Dive system compatibility is imperative to ensure safety and readiness. The equipments to be procured are:

HY105 Lightweight Dive System (LWDS): This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 60 feet of seawater (fsw) for a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. The LWDS consists of two subsystems; Diver Life Support System (DLSS) and Diver Equipment (see below for contents of subsystems). Required I/O is 14.

#### DLSS:

- 1. Compressor Package Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.
- 2. Composite Flasks Racks of composite HP cylinders; with manifolds and interconnecting hoses.
- 3. Volume Tank Assembly mounted on separate frame; with interconnecting hoses.
- 4. Control Console Suitcase size with air supply and pneumofathometer control.

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**Exhibit P-40 Budget Item Justification Sheet** 

	BUDGET ITEM JUSTIFICATION SHEET (Con't)		DATE:
			FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OP,N BA 1: Ships Support Equipm	ent	Diving and Salvage Equipmer	nt (BLI 1130)
6. – .			

#### Diver Equipment:

- 1. Full Facemask Lightweight, low volume FFM with communications that interface with fielded communication sets. Each set includes three FFMs.
- 2. Harness Assembly Diver harness with manifold block. Each set includes three Harness Assemblies.

HY178 H.P. Air Compressors: This item provides reserve commands with indigenous H.P. air compressors for use with their Lightweight Dive Systems procured in HY105. Required I/O is 14.

#### EQUIPMENT INSTALLATION (FMP) - (N869)

Funding is for the installation of equipment including Fleet Modernization Program installation, installation of training equipment, and installation of equipment in other shore activities.

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Exhibit P-40 Budget Item Justification Sheet

## **UNCLASSIFIED**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

FEBRUARY 1997

DATE:

APPROPRIATION/BUDGET ACTIVITY

OP,N BA 1: Ships Support Equipment

P-1 ITEM NOMENCLATURE/SUBHEAD
Diving and Salvage Equipment

					TOTAL	COST IN THOUSA	NDS OF	DOLLARS		
COST	ELEMENT OF COST	IDENT CODE			FY 1997		FY 1998		FY 1999	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS
	DIVING EQUIPMENT - (N873)									
HY106	Lightweight Dive System									
	a. System	Α	3	\$462						
	b. 5000 PSI Flask Replacement	Α								
	c. Engineering Change Proposals	Α		\$58						
HY107	Portable Recompression Chamber									
	a. Portable Chamber	Α			3	\$1,069				
	b. Engineering Change Proposals	Α				\$143				
	c. Environmental Upgrade Package	Α								
HY123	Flyaway Dive System III									
	a. High Pressure Air System	Α	2	\$309			3	\$656	3	\$6
	b. Engineering Change Proposals	Α		\$604						
	c. Mixed Gas System	Α								
HY132	Standard Recompression Chamber									
	a. Standard Chamber	Α	1	\$238	2	\$572	2	\$561	5	\$1,4
	b. Chmbr w/o Gas Storage/Comp	Α			1	\$144				
	SUBTOTAL:			\$1,671		\$1,928		\$1,217		\$2,14
	SALVAGE EQUIPMENT - (N869)									
HY050	Synthetic Line	Α					8	\$379		
HY062	ORION/D2/CURV Sonar System	Α							2	\$5
HY131	ROV Handling System	Α	1	\$319	1	\$1,174			1	\$5
HY134	Lift Line Spooler	Α	1	\$134						
HY135	U/W Ship Husbandry ROV	Α							2	\$1,0
HY136	30 KIP FADOSS	Α	2	\$760						
HY137	Electrical Protection Monitor	Α	8	\$219						
HY138	Salvage Air Van	Α	2	\$55						
HY139	Digital Enhanced TV	Α	16	\$1,490						
HY140	ROV Control Package	Α			1	\$802				
HY141	U/W Ship Husbandry Inspection System	Α			5	\$523				

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## **UNCLASSIFIED**

WEAPON SYSTEM COST ANALYSIS

EXHIBIT (P-5)

DATE:

FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY

BA 1: Ships Support Equipment

P-1 ITEM NOMENCLATURE/SUBHEAD
Diving and Salvage Equipment

ELEMENT OF COST	IDENT		FY 1996		FY 1997		FY 1998		FY 1999
	OODL	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Salvage Air Compressor	Α			5	\$1,192				
Salvage Air Hose System	Α			3	\$875				
Cofferdam System	Α					9	\$448		
Propeller Grooming Kit	Α					5	\$447		
ROV Telemetry System	Α					1	\$914		
Closed Cycle Hull Cleaning System	Α	2	\$934					2	\$969
Flyaway Weld Van	Α					2	\$464		
LWT Hydraulic Power Unit	Α	15	\$580						
Reprogrammed for Cancelled Vouchers	Α		\$215						
SUBTOTAL:			\$4,706		\$4,566		\$2,652		\$3,133
RESERVE EQUIPMENT - (N869)									
	Α	2	\$235						
H.P. Air Compressors	Α			4	\$290	3	\$235	3	\$268
SUBTOTAL:			\$235		\$290		\$235		\$268
EQUIPMENT INSTALLATION (FMP) - (N8)	 69)								
Installation/Alteration (FMP)	A		\$1,221		\$1,700		\$756		
SUBTOTAL:			\$1,221		\$1,700		\$756		\$0
GRAND TOTAL:			\$7,833		\$8,484		\$4,860		\$5,550
	Salvage Air Compressor Salvage Air Hose System Cofferdam System Propeller Grooming Kit ROV Telemetry System Closed Cycle Hull Cleaning System Flyaway Weld Van LWT Hydraulic Power Unit Reprogrammed for Cancelled Vouchers  SUBTOTAL:  RESERVE EQUIPMENT - (N869) Lightweight Dive System H.P. Air Compressors  SUBTOTAL:  EQUIPMENT INSTALLATION (FMP) - (N861) Installation/Alteration (FMP)  SUBTOTAL:	Salvage Air Compressor Salvage Air Hose System Cofferdam System Propeller Grooming Kit ROV Telemetry System Closed Cycle Hull Cleaning System Flyaway Weld Van LWT Hydraulic Power Unit Reprogrammed for Cancelled Vouchers  SUBTOTAL:  RESERVE EQUIPMENT - (N869) Lightweight Dive System H.P. Air Compressors A SUBTOTAL:  EQUIPMENT INSTALLATION (FMP) - (N869) Installation/Alteration (FMP) A SUBTOTAL:	Salvage Air Compressor Salvage Air Hose System Cofferdam System A Propeller Grooming Kit ROV Telemetry System Closed Cycle Hull Cleaning System A LWT Hydraulic Power Unit Reprogrammed for Cancelled Vouchers  SUBTOTAL:  RESERVE EQUIPMENT - (N869) Lightweight Dive System H.P. Air Compressors A SUBTOTAL:  EQUIPMENT INSTALLATION (FMP) - (N869) Installation/Alteration (FMP) A SUBTOTAL:	CODE	Salvage Air Compressor	Salvage Air Compressor	CODE	CODE	Salvage Air Compressor

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## **UNCLASSIFIED**

			DODOLI I NOC	CUREMENT HISTO	ZICI AND I LA	ACC II SHI	1			DATE FEBRUARY	′ 1997
	TION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE SUBHEAD							
OP, N BA 1: Ships Support Equipment					Diving and S	Salvage Equipi	ment			81HY	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABL
DIVING	 EQUIPMENT - (N873)										
	Lightweight Dive System										
	a. System										
	FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	04/97	3	\$154	YES	NO	
	b. Engineering Change P	roposals									
	FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	N/A	N/A	\$58	YES	NO	
HY107	Portable Recomp Chamber										
	a. Portable Chamber										
	FY 1997	UNKNOWN	C/FP	NAVSEA	03/97	02/98	3	\$356.3	YES	NO	
	b. Engineering Change P	roposals									
	FY 1997	UNKNOWN	C/FP	NAVSEA	08/97	N/A	N/A	\$143	YES	NO	
-IY123 ∣	 Flyaway Dive System III										
111120	a. H.P. Air System										
	FY 1996	GPC	C/FP	NAVSEA	02/96	03/97	2	\$154.5	YES	NO	
		Norfolk, VA									
	FY 1998	UNKNOWN	C/FP	NAVSEA	03/98	03/99	3	\$218.7	YES	NO	
	FY 1999	UNKNOWN	C/FP	NAVSEA	03/99	03/00	3	\$221	YES	NO	
	b. Engineering Change P	roposals									
	FY 1996	GPC	C/FP	NAVSEA	02/96	N/A	N/A	\$604	YES	NO	
		Norfolk, VA						•			

REMARKS

HY123 FADS III H.P. Air System unit cost variations depend on whether we are procuring a full FADS III or the receiving command may already have a MK3 MOD 0 LWDS which we can upgrade for 5000 psi service and only have to procure the H.P. Gas Racks.

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Exhibit P-5A Procurement History and Planning

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## **UNCLASSIFIED**

			BUDGET PROC	CUREMENT HISTO	ORY AND PLA	NNING (P-5A)				DATE	/ 1007
PPROPRIA	TION/BUDGET ACTIVITY				P-1 ITEM NOMEN	CLATURE			SUBHEAD	FEBRUARY	1997
	3A 1: Ships Support Equipmer	nt				Salvage Equipr	ment			81HY	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
HY132	   Standard Recomp. Chamber										
	a. Standard Chamber										
	FY 1996	GPC Norfolk, VA	C/FP	NAVSEA	04/96	06/97	1	\$238	NO	NO	
	FY 1997	UNKNOWN	C/FP	NAVSEA	04/97	06/98	2	\$286	NO	NO	
	FY 1998	UNKNOWN	C/FP	NAVSEA	04/98	06/99	2	\$280.5	NO	NO	
	FY 1999	UNKNOWN	C/FP	NAVSEA	04/99	06/00	5	\$297.2	NO	NO	
	b. Chamber w/o Gas S	l torage/Compressor									
	FY 1997	UNKNOWN	C/FP	NAVSEA	04/97	08/98	1	\$144	NO	NO	
SAI VA	 GE EQUIPMENT - (N869										
	Synthetic Line	ĺ									
	FY 1998	UNKNOWN	C/CPAF	NAVSEA	03/98	08/99	8	\$47.4	YES	N0	
HY062 (	 ORION/D2/CURV Sonar Syst	 em									
	FY 1999	UNKNOWN	C/CPAF	NAVSEA	03/99	08/00	2	\$251.5	YES	NO	

#### REMARKS

HY132: In FY97, procuring two complete chamber systems and one chamber without gas storage and compressors. The unit cost variations depend on the existing configuration and whether we need to procure compressors, gas banks, etc. with the chamber or whether the existing support equipment is in acceptable condition and we just need to procure the chamber.

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Exhibit P-5A Procurement History and Planning

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## **UNCLASSIFIED**

			BUDGET PROC	CUREMENT HISTO	ORY AND PLA	NNING (P-5A)	)			DATE FEBRUARY	7 1997
	N/BUDGET ACTIVITY 1: Ships Support Equipmen	nt			P-1 ITEM NOMEN Diving and S	cLature Salvage Equipr	ment		SUBHEAD	81HY	001
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
HY131 RC	DV Handling System										
	FY 1996	Oceaneering Upper Marlboro, MD	C/CPAF	NAVSEA	09/96	09/97	1	\$319	YES	NO	
	FY 1997 FY 1999	UNKNOWN UNKNOWN	C/CPAF C/CPAF	NAVSEA NAVSEA	08/97 03/99	02/99 09/00	1 1	\$1,174 \$592	YES YES	NO NO	
HY134 Lift	t Line Spooler FY 1996	Oceaneering Upper Marlboro, MD	C/CPAF	NAVSEA	02/96	10/96	1	\$134	YES	NO	
HY135 U/\	W Ship Husbandry ROV FY 1999	UNKNOWN	C/CPAF	NAVSEA	02/99	08/99	2	\$534.5	YES	NO	
HY136 30	KIP FADOSS FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	12/96	2	\$380	YES	NO	
HY137 Ele	ectrical Protection Monitor FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	07/96	8	\$27.4	YES	NO	
HY138 Sa	ılvage Air Van FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	12/96	2	\$27.5	YES	NO	

REMARKS

HY131: Unit costs differ because cable capacity and load capacity differs between each system.

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Exhibit P-5A Procurement History and Planning

## **UNCLASSIFIED**

			BUDGET PROC	CUREMENT HISTO	DRY AND PLA	NNING (P-5A)	·			DATE FEBRUARY	/ 1997
	ON/BUDGET ACTIVITY A 1: Ships Support Equipme	nt			P-1 ITEM NOMEN Diving and S	cLature Salvage Equipr	nent		SUBHEAD	81HY	
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABI
HY139 D	igital Enhanced TV FY 1996	GPC Norfolk, VA	C/CPAF	NAVSEA	04/96	08/96	16	\$93.1	YES	NO	
HY140 R	OV Control Package FY 1997	UNKNOWN	C/CPAF	NAVSEA	08/97	10/98	1	\$802	YES	NO	
HY141 U	/W Ship Husb Inspec Sys FY 1997	UNKNOWN	C/CPAF	NAVSEA	03/97	07/97	5	\$104.6	YES	NO	
HY142 S	alvage Air Compressor FY 1997	UNKNOWN	C/CPAF	NAVSEA	03/97	03/98	5	\$238.4	YES	NO	
HY143 S	alvage Air Hose System FY 1997	UNKNOWN	C/CPAF	NAVSEA	03/97	10/97	3	291.7	YES	NO	
HY145 C	offerdam System FY 1998	UNKNOWN	C/CPAF	NAVSEA	01/99	04/99	9	\$49.8	YES	NO	
HY146 P	ropeller Grooming Kit FY 1998	UNKNOWN	C/CPAF	NAVSEA	02/99	05/99	5	\$89.4	YES	NO	

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P-1 SHOPPING LIST

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Exhibit P-5A Procurement History and Planning

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## **UNCLASSIFIED**

			BUDGET PROC	CUREMENT HISTO	RY AND PLA	NNING (P-5A)				DATE	
DDDODDIATIO	N/BUDGET ACTIVITY				P-1 ITEM NOMEN	CI ATUDE			SUBHEAD	FEBRUARY	7 1997
	1: Ships Support Equipme	ant				Salvage Equipr	ment		SUBHEAD	81HY	
OI, N BA	1. Onips Support Equipme	511t			Diving and C	baivage Equipi	HOIR			01111	
			CONTRACT			DATE OF			SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	UNIT	AVAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	ву	DATE	DELIVERY		COST (000)	NOW	REQ'D	AVAILABLE
HV1/17 RO	OV Telemetry System										
	FY 1998	UNKNOWN	C/CPAF	NAVSEA	02/98	11/99	1	\$914	YES	NO	
	1 1 1000	O'MATOTTI	0,01,11	11,1102,1	02/00	1 1700	·	ΨΟΙΙ	120	""	
HY151 Clo	sed Cycle Hull Cleaning S	System									
	FY 1996	GPC	C/CPAF	NAVSEA	07/96	09/96	2	\$467	YES	NO	
		Norfolk, VA									
	FY 1999	UNKNOWN	C/CPAF	NAVSEA	01/99	03/99	2	\$484.5	YES	NO	
HY167 Flya	away Weld Van										
	FY 1998	UNKNOWN	C/CPAF	NAVSEA	01/98	06/98	2	\$232	YES	NO	
HY170 LW	/T Hydraulic Power Unit										
	FY 1996	GPC	C/CPAF	NAVSEA	04/96	06/97	15	\$38.7	YES	NO	
		Norfolk, VA									
RESERVE	E EQUIPMENT - (N869)										
HY105 Lig	ghtweight Dive System										
	FY 1995	GPC	C/CPAF	NAVSEA	06/95	11/96	2	\$130	YES	NO	
		Norfolk, VA									
	FY 1996	GPC	C/CPAF	NAVSEA	04/96	04/97	2	\$117.5	YES	NO	
		Norfolk, VA									
REMARKS					1	L					<u> </u>

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P-1 SHOPPING LIST

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Exhibit P-5A Procurement History and Planning

PAGE NO. ITEM NO.

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## **UNCLASSIFIED**

			BUDGET PROC	CUREMENT HISTO	DRY AND PLA	NNING (P-5A)				DATE	/ 1007
	I/BUDGET ACTIVITY  1: Ships Support Equipm	nent			P-1 ITEM NOMEN Diving, Salva Installation/A	age, Reserve I	Equipment, and	i	SUBHEAD	FEBRUAR'	1997
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABL
HY178 H.F	P. Air Compressors FY 1997 FY 1998 FY 1999	UNKNOWN UNKNOWN	C/CPAF C/CPAF C/CPAF	NAVSEA NAVSEA NAVSEA	05/97 05/98 05/99	11/97 11/98 11/99	4 3 3 3	\$72.5 \$78.3 \$89.3	YES	NO NO NO	

DD Form 2446, JUL 87

P-1 SHOPPING LIST

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ITEM NO. PAGE NO. Exhibit P-5A Procurement History and Planning

#### Exhibit P-3a, Individual Modification

MODELS OF SYSTEMS AFFECTED: Model Series 322 TYPE MODIFICATION: ShipAlt ATS-1-25 1KP MODIFICATION TITLE: Towing System Modernization

DESCRIPTION/JUSTIFICATION: Modernization of the towing system will enhance a main-mission capability of the ship by improving reliability, maintainability, and safety. The current system uses obsolete controls and drive systems which are unreliable and difficult to support logistically. High utilization of these ships is expected over the next 10-15 year period for towing deactivated, defueld nuclear submarines. The modernization does not utilize centrally procurred material. The majority of the work will be labor, utilizing incidental materials procured by the installation contractor, to modernize existing hardware.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONS: N/A

FINANCIAL PLAN: (TOA, \$ in Millions)

									1 11 1	TIVOIT		1. (10/	¬, φ III I\	viiiioris										
	Pric	r Year	s FY	1995	FY	1996	FY	1997	FY	1998	FY	1999	FY	2000	FY	2001	FY	2002	FY	2003	T	С	Тс	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																								
PROC																								
Inst Kit I	NR.																							
A Kit			1	. 4	1	. 4	1	. 4	1	. 4														
Comp A																								
Comp B																								
Comp C																								
Eqpt NR																								
Eqpt																								
Eqpt A																								
Eqpt B																								
ECOs																								
Data																								
Training I	Eq																							
SE																								
Other																								
Other									•															
Other																								
ICS																								
Install co	ost			1.1		.8		1.3		. 4														
Total Pro	2																							

#### Exhibit P-3a, Individual Modification (Continued)

MODELS OF SYSTEMS AFFECTED: Model Series 322 MODIFICATION TITLE: Towing System Modernization

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Contractor

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months

CONTRACT DATES: Current Year: Various Budget Year 1: Various Budget Year 2: Various

DELIVERY DATE: Current Year: Various Budget Year 1: Various Budget Year 2: Various

(\$ in Millions)

Cost	Pric	or Year	s FY	1995	FY	1996	FY	1997	FY	1998	FY	1999		2000	FY	2001	FY	2002	FY	2003	Т	C	Тс	otal
	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś	Qty	Ś
(FY95 - 1 K:		~	1	1.1	201	Ť	201	· ·	201	Υ	201	Ÿ	201	~	201	Ÿ	201	*	201	4	201	Ψ.	201	*
(FY96 - 1 K:					1	.8																		
(FY97 - 1 K:	.t)						1	1.3																
(FY98 - 1 K	it)								1	. 4														

Installation Schedule

	FY 199	6	FY	1997			FY	1998			FY	1999			FY	2000			FY	2001			FY	2002		TC	Total
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In																											
Out																											

		BUDGET P-40	ITEM JUSTIFI	CATION SHEE	Т		DATE:	
							February	1997
APPROPRIATION/B	UDGET ACTIVITY					OMENCLATURE DERWATER EC	QUIPMENT (71	HZ)
OTHER PROCU	REMENT, NAVY				(Naval Sp	ecial Warfare	<b>Equipment EO</b>	D Forces)
<b>BA-1:SHIPS SUF</b>	PPORT EQUIPMI	ENT			BLI #1140	)		
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$5.1	\$5.1	\$9.1	\$8.7	\$8.6	\$7.6	\$8.1	\$7.0

#### ITEM DESCRIPTION/JUSTIFICATION:

This program supports Explosive Ordnance Disposal (EOD) Groups, Units and Detachments worldwide. The EOD diving system was initiated as a development program to supply EOD forces the necessary diving and diving related equipment to fulfill assigned missions. The following are the major end items.

HZ006- GAS TRANSFER SYSTEM: This item provides a method for transferring and mixing breathing gas media into the MK 16 UBA in the field.

HZ011-EOD INFLATABLE CRAFT: These craft will provide EOD units with improved inflatable crafts to support MK 16 diving in an MCM environment. These craft will be sturdy, yet lightweight and will consider low influence signature requirements.

HZ066-OUTFITTING EOD DETACHMENT: This line provides for the initial outfitting of diving systems/equipment which enhance mission capability for established EOD detachments.

HZ075-MOBILE FACILITIES: Provides oxygen clean environment for MK 16 UBA maintenance and a full size mobile recompression chamber for fly away EOD diving operations.

HZ076-DIVER EVALUATION UNIT: An underwater device used to train the EOD diver in underwater diving discipline.

HZ077-UPGRADED UNDERWATER BREATHING APPARATUS (UBA): Provides the product improvement for the MK 16 UBA to increase the Partial Pressure of Oxygen (PPO2) setpoint in order to decrease decompression time.

P-1 SHOPPING LIST ITEM NO. 28 PAGE NO. 1

**CLASSIFICATION:** 

**DD Form 2454, JUN 86** 

	BUDGET ITEM JUSTIFICATION	SHEET	DATE:	February 1997
	P-40 (CONTINUED)			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATUR	RE	
OP,N/1: SHIPS SUPPORT EQUIPMENT		EOD UNDERWATER EQU	JIPMENT (7	71HZ)

HZ078-FULL FACE MASK: Provides for Full Face Masks to be used with MK 16 UBA to provide facial protection during cold water diving and to increase safety for an unconscious diver.

HZ079-VERY SHALLOW WATER MINE COUNTERMEASURES (VSW MCM) INITIAL OUTFITTING: Provides for procurement of equipment and hardware to initial outfit the VSW MCM Unit. This equipment and hardware will allow for initial stand-up of the unit.

HZ080-C4I UPGRADES: Provides for the upgrade of existing EOD Mobile Communication Systems (MCS) to C4I requirements.

HZ081-U/W ACOUSTIC FIRING SYSTEM: Provides the capability to acoustically actuate an explosive charge from a stand off point to neutralize a mine or activiate a lift device.

HZ082-OBSTACLE AVOIDANCE SONAR: Provides EOD MCM and Area Search detachments with the capability to avoid mines ahead of their small craft during operations within a mine field (formerly Forward Looking Sonar).

HZ830-PRODUCTION ENGINEERING: Review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system. Provides production engineering support for all EOD production contracts.

HZ850-PRODUCT IMPROVEMENT: Engineering services to improve EOD Systems/Equipment in production to improve maintainablility, utilize current technology, and decrease cost.

HZ860-ACCEPTANCE, TEST, AND EVALUATION: Test, inspect, and accept first articles and, on a 100% basis, the production quantity of EOD tools and equipment being procured. These tools are man-rated, and proper functioning of each item must be verified.

HZTNG-INITIAL TRAINING: Provide training support packages which include curriculum material for Underwater EOD equipment.

P-1 SHOPPING LIST

ITEM NO. 28

PAGE NO. 2

**CLASSIFICATION:** 

# **UNCLASSIFIED**

		WEADO	N SAS	TEM COST ANA	ı vele				DATE:	
		P-5	/N 313	TEW COST ANA	LISIS				February <sup>1</sup>	1997
APPRO	PRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY			P-1 ITEM NOMEN EOD UNDERW			(71H	•		
	BA-1:SHIPS SUPPORT EQUIPMENT			(Naval Special	Warf	are Equipmen	t EOD	Forces)		
				-	TOTAI	L COST IN THOU	SANDS	OF DOLLARS		
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
0022			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
HZ006	U/W EXPLOSIVE ORDNANCE DISPOSAL(N85) GAS TRANSFER SYSTEM	А	7	217						
HZ011	INFLATABLE CRAFT	Α	2	106	4	216	4	222	4	229
HZ066	OUTFITTING EOD DET	Α	3	985	2	698	3	1,070	3	1,097
HZ075	MOBILE FACILITIES	Α	2	1,550	3	2,165	1	729		
HZ076 HZ077	DIVER EVALUATION UNIT	A	15	900			179	1,698	173	1,721
HZ078	FULL FACE MASK	Α			289	722	121	303		,
HZ079	VSW MCM INITIALLY OUTFITTING	Α						2,937		1,940
HZ080	C4I UPGRADES	Α		400				796		
HZ081	U/W ACOUSTIC FIRING SYSTEMS	Α							36	1,814
HZ082	OBSTACLE AVOIDANCE	Α							6	544
HZ830	PRODUCTION ENGINEERING	Α				352		362		375
HZ850	PRODUCT IMPROVEMENT	Α		500		681		495		510
HZ860	ACCEPTANCE, TEST & EVAL	Α		295		195		318		328
HZTNG	INITIAL TRAINING	А		128		45		120		120
	TOTAL 1 2446. JUN 86	P-1 SHO		5,081		5,074		9,050		8,678

**DD FORM 2446, JUN 86** 

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CLASSIFICATION:

	TION/BUDGET ACTIVITY			P-5A	P-1 ITEM NO	MENCLATUR			SUBHEAD	February 199	
THER PROC	CUREMENT, NAVY/BA-1:SHIPS S	SUPPORT EQUIP			EOD UNDER	WATER EQUI	PMENT			71HZ	
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLI
<b>HZ006</b> 1996	NAVEODTD	INDIAN HEAD, MD	WR	NAVSEA	02/96	02/97	7	31.0	YES	NO	
HZ011 1996 1997 1998 1999	SURFLANT/SURFPAC SURFLANT/SURFPAC SURFLANT/SURFPAC SURFLANT/SURFPAC	NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA	WR WR WR WR	NAVSEA NAVSEA NAVSEA NAVSEA	02/96 02/97 02/98 02/99	02/97 02/98 02/99 02/00	2 4 4 4	53.0 54.0 55.5 57.0	YES YES YES YES	NO NO NO NO	
HZ066 1996 1997 1998 1999	SURFLANT/SURFPAC SURFLANT/SURFPAC SURFLANT/SURFPAC SURFLANT/SURFPAC	NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA NORFOLK, VA/SD, CA	WR WR WR WR	NAVSEA NAVSEA NAVSEA NAVSEA	02/96 02/97 02/98 02/99	06/96 06/97 06/98 06/99	3 2 3 3	328.3 349.0 357.0 365.6	YES YES YES YES	NO NO NO NO	
HZ075 1996 1997 1998 HZ076 1996	CSS CSS CSS APL/WASH	PANAMA CITY, FL PANAMA CITY, FL PANAMA CITY, FL SEATTLE, WA	WR WR WR PD	NAVSEA NAVSEA NAVSEA SPAWAR	01/96 02/97 02/98 06/96	11/96 11/97 11/98 06/97	2 3 1	775.0 721.7 729.0 60.0	YES YES YES	NO NO NO	
<b>HZ077</b> 1998 1999	NAVEODTD NAVEODTD	INDIAN HEAD, MD INDIAN HEAD, MD	WR WR	NAVSEA NAVSEA	06/98 02/99	06/99 02/00	179 173	9.5 10.0	NO NO	NO NO	
<b>HZ078</b> 1997 1998	NAVEODTD NAVEODTD	INDIAN HEAD, MD INDIAN HEAD, MD	WR WR	NAVSEA NAVSEA	03/97 02/98	09/97 08/98	289 121	2.5 2.5	NO NO	NO NO	

REMARKS

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 28 PAGE NO. 4

CLASSIFICA		UNCLASSIFIED	BUDGET PRO	CUREMENT HISTO P-5A		ANNING				DATE February 19	97
	ATION/BUDGET ACTIVITY OCUREMENT, NAVY/BA-1:SI	HIPS SUPPORT EQUIP				NOMENCLAT ERWATER E(		SUBHEAD	SUBHEAD 71HZ		
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
<b>HZ081</b> 1999	NSWC IH	INDIAN HEAD, MD	WR	NAVSEA	02/99	02/00	36	50.4	NO	NO	
<b>HZ082</b> 1999	NAVEODTD	INDIAN HEAD,MD	WR	NAVSEA	06/99	06/00	6	90.6	NO	NO	
REMARKS											

DD Form 2446, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

#### **BUDGET ITEM JUSTIFICATION SHEET** DATE: P-40 **FEBRUARY 1997** APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD STANDARD BOATS/81H0 BLI: 1210 OTHER PROCUREMENT, NAVY/BA1: SHIPS SUPPORT EQUIPMENT 2000 2002 1996 1997 1998 1999 2001 2003 16 68 26 38 171 42 **QUANTITY** 36 121 COST \$5.8 \$4.5 \$4.9 \$5.6 \$6.2 \$5.6 \$9.6 \$10.6 (In Millions)

Boats are procured to fill allowances established by CNO and NAVSEA and to replace boats now in service which are beyond economical repair at shore activities and aboard ships. Total inventory objectives change based on Fleet requirements. P-23B and memo entries describe procurement plans to support the inventory objective as of this dated budget submit.

H0001 15m (50ft) WORKBOAT - (Steel) Used for all types of service e.g., diving, pushers, ammo/cargo handling, etc. Service life is 25 years.

H0002 15m (50ft) UTILITY BOAT - (Fiberglass) Used for transporting crews and cargo on AE, AOE, AR, AS, CV, CVN, LSD, LHD, and at shore activities. Service life 20 years.

H0005 7m (22ft) UTILITY BOAT - (Fiberglass) Used for general utility, supply and mail transport, at shore activities. Service life is 10 years.

H0006 8m (26ft) PERSONNEL BOAT - (Fiberglass) Used to transport personnel from ship to shore, as a mail carrier, and as a small cargo transport. Service life is 20 years.

H0009 14 ft PUNTS - (Aluminum) Used on auxiliaries, combatants, carriers, and amphibious as work platforms for maintenance inspection of ships' hull, in drydock and at shore activities. Service life is 3 years.

H0016 12m (40ft) PERSONNEL BOAT - (Fiberglass) used for officer/personnel transportation on carriers and shore activities. Service life is 20 years.

P-1 SHOPPING LIST ITEM NO. PAGE NO.

**CLASSIFICATION:** 

## CLASSIF UNCLASSIFIED

# BUDGET ITEM JUSTIFICATION SHEET P-40

DATE:

FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE/SUBHEAD

OTHER PROCUREMENT, NAVY/BA1: SHIPS SUPPORT EQUIPMENT

STANDARD BOATS/81H0

H0018 12m (40ft) UTILITY BOAT - (Fiberglass) Carried as ship's boat or assigned to a shore activity to carry personnel and cargo. Service life is 20 years.

H0025 SOLAS ENCAPSULATED LIFEBOAT - (Fiberglass) Used on Military Sealift Command ships as enclosed lifeboats. Service life is 20 years.

H0028 7m (24ft) RIGID INFLATABLE BOAT (RIB) - (Fiberglass) Used as ships' lifeboats, rescue boats and liberty boats, and for general transportation on auxiliaries, combatants, carriers, amphibious, and shore activities. Currently being installed as replacements for presently assigned 26 ft MWBs on combatant ships. Anticipated service life is 20 years.

H0030 22 ft EOD SUPPORT BOAT - (Fiberglass) Used for MK 16 UBA/Diving Training, Mammal Operations, Ordnance recovery, parachute insertion support and Command and Control. Service life of 10 years.

H0031 27 ft EOD Support Boat - (Fiberglass) Used for area search, MK 5 Mammal Systems, diving training and operations, ordnance/mine recovery and Command and Control. Service life is 10 years.

H0830 PRODUCTION ENGINEERING - Used for development of technical data packages, technical support, Test & Evaluation, manual development and printing, trials, boat inspections, etc.

P-1 SHOPPING LIST ITEM NO PAGE NO.

CLASSIFICATION:

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**UNCLASSIFIED** 

DD Form 2454, JUN 86

		WEAF	PONS	SYSTEM CO	ST A	NALYSIS EXI	нівіт	7	DATE	:		
		P-5			•				FEBF	RUARY 1997		
APPR	OPRIATION/BUDGET ACTIVITY			P-1 ITEM NOM	IENC	LATURE/SUBH	IEAD		<u> </u>			
OTHER	R PROCUREMENT, NAVY/BA1: SHIF	S SUP	POR	STANDARD	BOA <sup>°</sup>	TS/81H0						
	TOTAL COST IN THOUSANDS OF DO											
COST	ELEMENT OF COST	IDENT	0	FY 1996		FY 1997		FY 1998		FY 1999		
CODE		CODE										
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COS		
H0001	15M (50 FT) WORK BOAT		5	\$1,817	0	\$0	8	\$3,039	8	\$3,106		
H0002	15M (50 FT) UTILITY BOAT		0	\$0	7	\$1,950	0	\$0	0	\$0		
	7M (22FT) UTILITY BOAT		10	\$1,041	0	\$0	0	\$0	16	\$1,734		
	8M (26FT) PERSONNEL BOAT		0	\$0	0	\$0	0	\$0	0	\$0		
	10M (33FT) UTILITY BOAT		0	\$0	0	\$0	0	\$0	0	\$(		
	14 FT PUNT		0	\$0	0	\$0	55	\$44	0	\$(		
	12M (40FT) PERSONNEL BOAT		0	\$0	7	\$1,890	4	\$1,066	0	\$(		
	12M (40FT) UTILITY BOAT		0	\$0	0	\$0	0	\$0	0	\$(		
	SOLAS LIFEBOAT		0	\$0	0	\$0	0	\$0	0	\$		
	70' PERSONNEL BOAT		0	\$0	0	\$0	0	\$0	0	\$		
	7M (24FT) RIGID INFLATABLE BOAT		21	\$2,373	0	\$0	0	\$0	0	\$(		
	22' EOD SUPPORT BOAT		0	\$0	2	\$249	0	\$0	0	\$(		
	27' EOD SUPPORT BOAT		0	<b>\$0</b>	0	\$0	0	\$0	2	\$320		
	32' EOD SUPPORT BOAT		0	<b>\$0</b>	0	<b>\$0</b>	1	\$259	0	\$(		
	13M (42FT) PERSONNEL BOAT		0	<b>\$0</b>	0	\$0 \$0	0	\$0	0	\$(		
	13M (42FT) UTILITY BOAT		0	\$0 ******	0	\$0 ******	0	\$0	0	\$(		
	PRODUCTON ENGINEERING			\$293		\$292		\$287		\$244		
H0900	CONSULTING SERVICES			\$280		\$79		\$237		\$172		
			36	5804	16	4460	68	4932	26	5576		
	NOTE: ALL BOAT TYPES SHARED BY	 'All S	 P∩NS									
	(N09, N1, N7, N8, N4)	 										
	TOTALS INCLUDE PEO FUNDING											

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P-1 SHOPPING LIST ITEM NO. PAGE NO.

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**CLASSIFICATION:** 

			WEAPON	SYSTEM COST P-5A		SIS EXHIB	BIT			DATE FEBRUA	RY 1997
PPROPRIA	ATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE SUB-								
OTHER	R PROCUREMENT, NA	AVY/BA1: SHIPS SUI	PPORT E	QUIPMENT	STAND	ARD BO	DATS	81H0			
			CONTRACT			DATE OF			SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	UNIT	AVAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY		COST (000)	NOW	REQ'D	AVAILABL
H0001	15M (50FT) WORKBOA	Ť						(000)			
	<b>1996</b>	UNKNOWN	C/FP	NAVSEA	Dec-96	Dec-97	5	363.4	YES	NO	
	1998	UNKNOWN	OPT	NAVSEA	Nov-97	Nov-98	8	379.9	YES	NO	
	1999	UNKNOWN	OPT	NAVSEA	Oct-98	Oct-99	8	388.3	YES	NO	
10002	15M (50FT) UTILITY BO	AT									
	1997	UNKNOWN	C/FP	NAVSEA	Nov-96	Nov-97	7	278.5	YES	NO	
H0005	7M (22FT) UTILITY BOA	AT									
	<b>1996</b>	NORTHPORT, WI	OPT	NAVSEA	Mar-96	Mar-97	10	103.2	YES	NO	
	1999	UNKNOWN	C/FP	NAVSEA	Oct-98	Oct-99	16	108.4	YES	NO	
10009	14 FT PUNT										
	1998	NORTHPORT, WI	C/FP	NAVSEA	Nov-97	Nov-98	55	8.0	YES	NO	
H0016	12M (40FT) PERSONNE	L BOAT									
	1997	UNKNOWN	C/FP	NAVSEA	Mar-97	Mar-98	7	270.0	YES	NO	
	1998	UNKNOWN	OPT	NAVSEA	Mar-98	Mar-99	4	266.5	YES	NO	
H0028	7M (24FT) RIGID INFLA	TABLE BOAT									
	1996	NORTHPORT	OPT	NAVSEA	Dec-96	Dec-97	25	113.0	YES	NO	
H0030	22' EOD SUPPORT BO	4									
	1997	BOSTON WHALER, FL	C/FP	NRCC SD	Jan-97	Jan-98	2	127.0	YES	NO	
H0031	27' EOD SUPPORT BO	AT									
	1999	BOSTON WHALER, FL	C/FP	NRCC SD	Oct-98	Oct-99	2	160.0	YES	NO	
H0032	32' EOD SUPPORT BO	I AT									
	1998	BOSTON WHALER, FL	C/FP	FISC NORF	Oct-97	Oct-98	1	259.0	YES	NO	
REMAR		· <del>-</del> · · · · · · · · · · · · · · · · · · ·	<del>-</del> ····	1		2 2 2 2 2				1	<u> </u>

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P-1 SHOPPING LIST

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**CLASSIFICATION:** 

**UNCLASSIFIED** CLASSIFICATION:

REQUIREMENTS STUDY - NOT-INSTALLED NONCONSUMABLES P-23B

**FEBRUARY 1997** 

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE/SUBHEAD

#### OTHER PROCUREMENT, NAVY/ BA1: SHIPS SUPPOR STANDARD BOATS/81H0

ITEM/PROJECT UNIT	TOTAL IO / REQUIREMENT FY99	QUANTITY ON HAND & NOT IN USE	QUANTITY IN USE	QUANTITY DUE IN WITH FY 95/96 & PRIOR FUNDS	QUANTITY DUE IN WITH FY 97 PROGRAM FUNDS	PLANNED BUDGET YEARS (98/99) PROCUREMENT	BALANCE	PHASING RATIONALE
15M (5OFT) WB 15M (50FT) UB 7M (22FT) UB 8M (26FT) PE 14FT PUNT 12M (40FT) PE 12M (40FT) UB 7M (24FT) RIB 22' EOD SB 27' EOD SB 32' EOD SB	249 108 327 119 469 88 56 300 67 27 2	15 2 20 17 154 2 8 8 0 0	162 86 234 103 256 62 51 251 63 23 1	5 0 10 0 0 0 0 51 0 0	0 7 0 0 0 7 0 0 2 0 0	16 0 16 0 55 4 0 0 0 2 1	-51 -13 -47 1 -4 -13 3 10 -2 -2 0	

NOTES:

BOATS MUST BE PROCURED IN 'ECONOMICAL QTYS' - THIS CAN CAUSE A "BALANCE" - A POSITIVE BALANCE IS USED TO SUPPORT OVERAGE BOATS - A NEGATIVE BALANCE IS A DEFICIENCY. SEE MEMO ENTRIES FOR FURTHER DETAILS

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CLASSIFICATION:

## **UNCLASSIFIED**

REQUIREMENTS STUDY - N	IEMO ENTRIES	
H0001 - 15M (50') WORKBOAT FY96 AUTHORIZED ALLOWANCES 202* FY96 DECOMMISSIONINGS 6 FY97 DECOMMISSIONINGS 2 FY98 DECOMMISSIONINGS 3 FY99 AUTHORIZED ALLOWANCES 191 EXPECTED LOSSES 58* FY99 IO REQUIREMENT 249  28% BOATS IN SERVICE EXCEEDING 25 YEAR SERVICE LIFE FY96 authorized allowances includes other workboats that will require replacement—expected losses includes replacement of these other worker over-age.		
H0005 - 7M (22') UTILITY BOAT FY96 AUTHORIZED ALLOWANCES 234 FY96 DECOMMISSIONINGS 0 FY97 DECOMMISSIONINGS 0 FY98 DECOMMISSIONINGS 0 FY99 AUTHORIZED ALLOWANCES 234 EXPECTED LOSSES 93 FY99 IO REQUIREMENT 327	H0006 - 8M (26') PERSONNEL BOAT FY96 AUTHORIZED ALLOWANCES 103 FY96 DECOMMISSIONINGS 0 FY97 DECOMMISSIONINGS 0 FY98 DECOMMISSIONINGS 0 FY99 AUTHORIZED ALLOWANCES 103 EXPECTED LOSSES 16 (BY AGE) FY99 IO REQUIREMENT 119	
19% OF BOATS IN SERVICE EXCEED 10 YEAR SERVICE LIFE EXPECTED LOSSES BASED ON ACTUAL AVGS OVER PAST THRE 18 PER YEAR	20% OF BOATS IN SERVICE EXCEED 20 YEAR SERVICE LIFE EE YEARS	

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**CLASSIFICATION:** 

## **UNCLASSIFIED**

REQUIREMEN	TS STUDY - N	IEMO ENTRIES		
10009 - 14' PUNT		H0016 - 12m (40') PERSONNEL BOAT		
Y96 AUTHORIZED ALLOWANCES	256	FY96 AUTHORIZED ALLOWANCES	62	
Y96 DECOMMISSIONINGS 0		FY96 DECOMMISSIONINGS 0		
Y97 DECOMMISSIONINGS 0		FY97 DECOMMISSIONINGS 0		
Y98 DECOMMISSIONINGS 0		FY98 DECOMMISSIONINGS 0		
Y99 AUTHORIZED ALLOWANCES	256	FY99 AUTHORIZED ALLOWANCES		
EXPECTED LOSSES	213	EXPECTED LOSSES	26	
Y99 IO REQUIREMENT	469	FY99 IO REQUIREMENT	88	
6% OF BOATS EXCEED 3 YEAR SERV	ICE LIFE	47% OF BOATS EXCEED 20 YEAR SER	VICE LIFE	
EXPECTED LOSSES BASED ON ACTUA	AL AVG OVER PAST THREE	•		
7 PER YEAR				
10018 - 12M (40') UTILITY BOAT		H0028 - 7m (24') RIGID INFLATABLE BO	ΔΤ	
Y96 AUTHORIZED ALLOWANCES	51	FY96 AUTHORIZED ALLOWANCES	291	
Y96 DECOMMISSIONINGS 8		FY96 DECOMMISSIONINGS 0		
Y97 DECOMMISSIONINGS 0		FY97 DECOMMISSIONINGS 0		
Y98 DECOMMISSIONINGS 3		FY98 DECOMMISSIONINGS 0		
Y99 AUTHORIZED ALLOWANCES	40	FY99 AUTHORIZED ALLOWANCES	291	
XPECTED LOSSES	16 (BY AGE)	EXPECTED LOSSES	0	
Y99 IO REQUIREMENT	56	INSURANCE SPARES (1 FOR 10)	29	
		DUE TO LIFESAVING MISSION	000	
		FY99 IO REQUIREMENT	300	
		0% OF BOATS EXCEED 20 YR SERVIC	FIJFF	
		1070 OF BOATO ENOLED 20 TR OERVIO		

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**CLASSIFICATION:** 

## **UNCLASSIFIED**

10030 - 22' EOD SUPPORT BOAT	H0031 - 27' EOD SUPPORT BOAT	
Y96 AUTHORIZED ALLOWANCES 67	FY96 AUTHORIZED ALLOWANCES 27	
Y96 DECOMMISSIONINGS 0	FY96 DECOMMISSIONINGS 0	
Y97 DECOMMISSIONINGS 0	FY97 DECOMMISSIONINGS 0	
Y98 DECOMMISSIONINGS 0	FY98 DECOMMISSIONINGS 0	
Y99 AUTHORIZED ALLOWANCES 67	FY99 AUTHORIZED ALLOWANCES 27	
EXPECTED LOSSES 0	EXPECTED LOSSES 0	
Y99 IO REQUIREMENT 67	FY99 IO REQUIREMENT 27	
10032 - 32' EOD SUPPORT BOAT		
Y96 AUTHORIZED ALLOWANCES 2		
Y96 DECOMMISSIONINGS 0		
Y97 DECOMMISSIONINGS 0		
TY98 DECOMMISSIONINGS 0		
Y99 AUTHORIZED ALLOWANCES 2		
EXPECTED LOSSES 0		
Y99 IO REQUIREMENT 2		

P-1 SHOPPING LIST ITEM NO. PAGE NO. 29

CLASSIFICATION:

		BUDGET IT P-40	EM JUSTIFIC	ATION SHEET			DATE:	February 1997
APPROPRIATION/BUDG OTHER PROCUREM BA-1 OTHER SHIPS	ENT, NAVY	UIPMENT			P-1 ITEM NOMI OTHER SHIF	ENCLATURE PS TRAINING E	QUIPMENT	LI: 1320
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY COST	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(In Millions)	\$4.9	\$1.4	\$1.8	\$1.9	\$4.1	\$4.2	\$16.0	\$3.6

The equipment procured under the Other Ships Training Equipment line supports Hull, Mechanical, and Electrical (HM&E) training requirement:

(H5277) Machinery Control Console Maintenance TTE

A Surface Warfare Training Requirements Review (SWTRR) directed Machinery Plant Central Control System (MPCCS) Technical Training Equipment (TTE) be procured to support maintenance training for MCM 1 Class ships. The MPCCS provides instrumentation for the centralized control of the propulsion plants, electric plant, fireman, auxiliary systems, and the gas turbine generator system.

(H5265) Surface Sustaining TTE

Funds procure HM&E technical training equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.

(H5276) Subsurface Sustaining TTE

Funds procure Subsurface HM&E technical training equipment (TTE) identified by the Type Commander, Chief of Naval Education and Training (CNET) and the Submarine and Integrated Undersea Sonar System (IUSS) Training Requirements Review (SITRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.

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BUDGET ITEM JUSTIFICATION SHEET P-40	(continuation)	DATE: Feb-97
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLA	ATURE
OTHER PROCUREMENT, NAVY	OTHER SHIPS TRAINING	EQUIPMEN LI: 1320
BA-1 OTHER SHIPS SUPPORT EQUIPMENT		
(H5281) "BM" SKILL TRAINING TTE		
The Boatswain's Mate (BM) Fundamental and Supervisor Courses at EWTGLANT (Little Creek) a training equipment (TTE) and associated training materials to accommodate planned training the Plan (NTP). The FY 1996 funds will procure and install classroom ship's deck equipment, mocku	oughput as specified in	the Navy Training

P-1 SHOPPING LIST ITEM NO. PAGE NO.

CLASSIFICATION:

### **UNCLASSIFIED**

		A. Appro	priation/Bud	get	B. Weapon N	lodel		C. Manufacturer		
		Activity T	Γitle/No.		Series/ Popul	ar Name		Plant City/St. Loc	:	DATE:
	ONS SYSTEM COST ANALYSIS IT (P-5)	BA-1 OTHER SHIPS SUPPORT EQUIPMENT			OTHER SHI EQUIPMEN	IPS TRAINING IT		VARIOUS		February 1997
					TOTAL COST	IN THOUSANDS O	F DOLLARS			
	WEAPONS SYSTEM COST ELEMENTS	IDENT CODE		FY 1996		FY 1997		FY 1998		FY 1999
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	EXPEDITIONARY WARFARE (N85)		<u> </u>	333.	<u> </u>	0001	2.11	3331	ζ	333.
H5277	Machinery Sys. Console Maint. TTE		1	3,116		0		0		0
	SURFACE WARFARE (N86)									
H5265	Surface Sustaining TTE			0		396		800		689
H5281	BM Skill Training TTE			873		0		0		0
	SUBMARINE WARFARE (N87)									
H5276	Subsurface Sustaining TTE			956		1,038		1,015		1,199
	Subtotal (N85/N86) Subtotal (N87) TOTAL			3,989 956 4,945		396 1,038 1,434		800 1,015 1,815		689 1,199 1,888
	1	ļ		7,040		.,101		1,010		1,000

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## **UNCLASSIFIED**

			BUDGET PR	OCUREMENT HIS	TORY AND	PLANNING	(P-5A)			DATE	
	PROCUREMENT, NAV	/Y			P-1 ITEM NOM		RAINING E	EQUIPMEN	SUBHEAD	81H5	February 1997
<b>BA-1 0</b>	THER SHIPS SUPPOR	T EQUIPMENT									
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
H5277	Machinery Control Console Maint. TTE [FY 96]	NAVSURFWARCEN PHILADELPHIA, PA	ID/IQ	NAVICP	Aug-96	9/97	1	\$3,116	yes	no	
H5265	Surface Sustaining Training TTE [FY 97-03]	various	various	N'SEALOGCEN	various	various	various	various	yes	yes	
H5281	BM Skill Training TTE [FY 96]	various/TBD	various	N'SEALOGCEN	various	various	various	various	yes	no	
H5276	Subsurface Sustaining TTE [FY 96-03)	various	various	N'SEA/SEALOG	various	various	various	various	yes	no	
REMARKS	S										

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	BUDGET P-1	ITEM JUSTIF	ICATION SHE	ET		DATE:	February 1997				
APPROPRIATION/BUDGOTHER PROCUREMEN		VITY:			P-1 ITEM NO	MENCLATURI	Ξ:				
<b>BA:1 SHIPS SUPPORT E</b>	QUIPMEN	$\mathbf{T}$			PRODUCTION SUPPORT FACILITIES (1415)						
		FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03		
QUANTITY											
COST (IN MILLIONS)		\$6.9	\$2.9	\$0.4	\$0.4	\$0.4	\$0.4	\$0.4	\$0.4		

This budget submission reflects the minimum investment required for industrial plant equipment and other equipment necessary to support Navy managed facilities which are not Defense Business Operations Fund (DBOF) funded.

#### NAVY EXPERIMENTAL DIVING UNIT--KM003

The Navy Experimental Diving Unit's (NEDU) mission is to support the fleet diver through test and evaluation of diving equipments and procedures as well as hyperbaric systems for NAVSEA, Navy, and DoD activities. Funding is to procure equipment for test, facilities atmospheric control, life support, and physiological systems. These systems not only ensure the safety and lives of NEDU sailors performing experimental dives, but ultimately support the combat readiness and mission success of the fleet sailors who use the equipment tested at NEDU.

#### MAGNETIC SILENCING FACILITIES--KM006

The Magnetic Silencing Facilities' (MSF) mission is to measure, calibrate, and reduce magnetic signatures of surface ships and submarines. This requires the procurement of magnetic measurement systems (ranges), reduction systems, portable ranges and special systems for Mine Counter Measure vessels (MCMs).

#### NAVSEA HEADQUARTERS EQUIPMENT--KM010

Funding in this line provides automated information system requirements for the Naval Sea Systems Command. The Acquisition Center for Excellence serves as an interactive work place for program managers to assess new process concepts and define program objectives, operates as a virtual prototyping laboratory, and functions as an electronically accessible resource library for the acquisition community.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)						A DATE:		February 1997	1			
	PRIATION/BUDGET ACTIVITY:		C P-1 I	TEM NOMENCI	ATURE	:						
OPN BA-1: SHIPS SUPPORT EQUIPMENT				PRODUCTION SUPPORT FACILITIES (81KM)								
				TOTAL COSTS IN THOUSANDS OF DOLLARS								
COST	ELEMENT OF COST	IDENT CODE		FY 1996		FY 1997		FY 1998	FY 1999			
CODE			QTY	TOTAL	QTY	TOTAL	QTY	TOTAL	QTY	TOTAL		
	m		(0)	COST		COST	(4.0)	COST		COST		
	(1)	(2)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)		
	LOGISTICS (OP-04)											
WM002	NAVY EVDEDIMENTAL DIVING UNIT FOLID			<i>(5</i> 0		<b>5</b> 10		252		272		
KM003	NAVY EXPERIMENTAL DIVING UNIT EQUIP.	Α		659		518		353		373		
KM006	MAGNETIC SILENCING FACILITIES EQUIP.	Α		2160		2352		0		0		
11111000				2100		2002		v		v		
KM010	NAVSEA HEADQUARTERS EQUIPMENT	A		4072								
	TOTAL PRODUCTION CURPORT FACE			C 901		2.970		353		373		
	TOTAL PRODUCTION SUPPORT FACS			6,891		2,870		353		3/3		
		ITEN AND			DA GE M			TD 5 W				

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EXHIBIT P-5 Weapon System Cost analysis

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET								Feb-97
P-40								
APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATUR								
OTHER PROCUREMENT, NAVY								
BA:1 SHIPS SUP	PORT EQUI	PMENT			OPERATIN	G FORCES	IPE	
	1996	1997	1998	1999	2000	2001	2002	2003
QUANTITY								
COST (In Millions)	\$0.8	\$0.9	\$0.9	\$0.9	\$0.9	\$0.9	\$0.9	\$0.9

This budget submission reflects the minimum investment for machine tools, shop equipment, and other equipment necessary to support maintenance of Fleet industrial capabilities. Upgrade of industrial capability at Afloat and Ashore industrial activities is accomplished by replacement of equipment beyond economic repair and acquisition of improved industrial capabilities as new technology/systems are introduced to the Fleet. Activities covered under this program include any activity where repair tasks are performed, i.e., tenders, shore Intermediate Maintenance Activities, Trident Refit Facilities, Ship Repair Facilities, combatants and amphibious ships with machining capability, Naval base shops, etc. It does not cover Naval Shipyards.

# P-1 ITEM NOMENCLATURE NUCLEAR ALTERATIONS (81HS)

# **CLASSIFIED SUBMIT**

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# **UNCLASSIFIED**

	DATE: FEBRUARY 1997										
APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATUR								Ē			
OTHER PROCUREMENT, NAVY (OPN) BA-1 SHIPS SUPPORT EQUIPMENT						MODERNIZATION SUPPORT LI 1490					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Millions)	\$3.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0			

\*

FY96 \$2,979K budgeted in the P-1 Pollution Control Equipment - # 14

P-1 SHOPPING LIST

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